AWP-ZX7

SERVICE MANUAL

Ver 1.0 2004.05

US Model Canadian Model AEP Model UK Model E Model

AWP-ZX7 is composed of following models.
 As for the service manual, it is issued for each component model, then, please refer to them.

COMPONENT MODEL NAME

	AWP-ZX7
COMPACT DISK DECK RECEIVER SYSTEM	CX-LZX7
SPEAKER SYSTEM	SSX-LZX7

· Abbreviation

CND: Canadian model

E51 : Chilean and Peruvian models

pièce portant le numéro spécifié.

KR : Korean modelSP : Singapore model

PARTS LIST

I AIX I	O L.		
Part No	<u>.</u>	<u>Description</u>	<u>Remark</u>
		ACCESSORIES	

1-478-5	20-11	COMMANDER, STAI	NDARD (RM-Z20051)
			(INCLUDING BATTERY COVER)
1-754-1	02-31	ANTENNA, LOOP (L'	W.MW)
1-754-2	43-11	ANTENNA (FM)	
1-770-0 1	19-51	ADAPTOR, CONVER	SION PLUG (UK)
1-793-1	84-23	CONNECTOR (F TYP	PE ADAPTOR)
1-823-7	'04-11	CUSHION CORD, CO	,
4-210-2	54-02	CUSHION (FOOT)(FO	OR SPEAKER)
4-254-1	79-11		TION (ENGLISH)(EXCEPT KR)
4-254-1	79-21		TION (FRENCH)(CND, AEP, SP)
4-254-1	79-31	MANUAL, INSTRUC	TION (SPANISH)(US, AEP, SP, E51)
4-254-1	79-41	MANUAL, INSTRUC	TION (CZECH, GERMAN, HANGARIAN,
			ITALIAN, POLISH, RUSSIAN)(AEP)
4-254-1			TION (CHINESE)(SP)
4-254-1	79-61	MANUAL, INSTRUC	TION (KOREAN)(KR)
The c	ompon	ents identified by	Les composants identifiés par
		otted line with mark	une marque A sont critiques
	critica	l for safety.	pour la sécurité.
Repla	ce only	with part number	Ne les remplacer que par une

MICRO HI-FI COMPONENT SYSTEM



specified.

REVISION HISTORY

Clicking the version allows you to jump to the revised page. Also, clicking the version at the upper right on the revised page allows you to jump to the next revised page.

Ver.	Date Description of Revision					
1.0	2004.05	New				







COMPACT DISC STEREO SYSTEM

BASIC CD MECHANISM: DA11B3

SYSTEM	SYSTEM COMPACT DISC		REMOTE CONTROLLER	
XR-X7	XR-X7 CX-LX7		RC-BAT01(BS)	



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SCHEMATIC DIAGRAM – 6 (PT) <u, c="" ez,="" k,=""></u,>	
WIRING – 9 (PT) <hr/>	
SCHEMATIC DIAGRAM – 7 (PT) <hr/>	
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SPECIFICATIONS < EZ, K>

MAIN UNIT CX-LX7

MW usable sensitivity

TUNER

FM tuning range 87.5 MHz to 108 MHz

FM usable sensitivity (IHF) 16.8 dBf

FM antenna terminal 75 ohms (unbalanced)

MW tuning range 531 kHz to 1602 kHz (9 kHz step)

530 kHz to 1710 kHz (10 kHz step)

 $350 \mu V/m$

LW tuning range 144 kHz to 290 kHz LW usable sensitivity 1400 μV/m MW/LW antenna Loop antenna

AMPLIFIER

Power output Rated: 16 W + 16 W

(6 ohms, THD 1 %, 1 kHz/DIN 45500)

Reference: 20 W + 20 W

(6 ohms, THD 10 %, 1 kHz/DIN 45324) DIN MUSIC POWER: 30 W + 30 W

VIDEO/AUX: 400 mV Input SPEAKERS: 6 ohms or more **Outputs**

PHONES: 16 ohms or more SUB WOOFER: 1.0 V DIGITAL OUT (OPTICAL) jack

LINE OUT jack

CD PLAYER

Semiconductor laser ($\lambda = 780 \text{ nm}$) Laser

D/A converter 1 bit dual

Signal-to-noise ratio 85 dB (1 kHz, 0 dB) Harmonic distortion 0.08 % (1 kHz, 0 dB) Wow and flutter Unmeasurable

GENERAL

Power requirements 230 V AC, 50 Hz Power consumption EZ: 50 W

K: 55 W

Power consumption in

standby mode EZ: With ECO mode on: 1.2 W

With ECO mode off: 13 W K: With ECO mode on: 1.5 W With ECO mode off: 15 W

Dimensions (W \times H \times D) 249 x 92 x 353 mm

Weight 3.5 kg

SPEAKER SYSTEM SX-LX7

Speaker system 2 way, bass reflex (magnetic shielded) Speaker units

Woofer: 80 mm cone Tweeter: 25 mm dome

Impedance 6 ohms

Dimensions (W \times H \times D) 98 x 260 x 191 mm

Weight 1.6 kg

• Design and specifications are subject to change without notice.

SPECIFICATIONS <U, HR, C>

MAIN UNIT CX-LX7

TUNER

FM tuning range 87.5 MHz to 108 MHz 13.2 dBf

FM usable sensitivity (IHF)

FM antenna terminals 75 ohms (unbalanced)

530 kHz to 1710 kHz (10 kHz step) AM tuning range 531 kHz to 1602 kHz (9 kHz step) AM usable sensitivity $350 \mu V/m$

AM antenna

Loop antenna

AMPLIFIER

Power output <U, C> 16 W + 16 W

(150 Hz - 16 kHz, THD less than 1 %,

6 ohms) 20 W + 20 W

(1 kHz, THD less than 10 %, 6 ohms)

Total harmonic distortion <U, C>

0.1 % (6 W, 1 kHz, 6 ohms, DIN AUDIO)

Power output <HR> Rated: 16 W + 16 W

(6 ohms, THD 1 %, 1 kHz) Reference: 20 W + 20 W (6 ohms, THD 10 %, 1 kHz) VIDEO/AUX: 400 mV

Input **Outputs** SPEAKERS: 6 ohms or more PHONES: 16 ohms or more

SUB WOOFER: 1.0 V DIGITAL OUT (OPTICAL) jack

LINE OUT jack

CD PLAYER

Laser Semiconductor laser ($\lambda = 780 \text{ nm}$)

D/A converter 1 bit dual

Signal-to-noise ratio 85 dB (1 kHz, 0 dB) Harmonic distortion 0.08 % (1 kHz, 0 dB) Wow and flutter Unmeasurable

GENERAL

U. C: 120 V AC, 60 Hz Power requirements

HR: 120 / 220 - 240 V AC switchable

50 / 60 Hz U: 45 W

C: 50 W HR: 60 W

Power consumption in

Power consumption

standby mode

Weight

With ECO mode on: 1.0 W

U, C: With ECO mode off: 13 W HR: With ECO mode off: 15 W

Dimensions (W \times H \times D) 249 x 92 x 350 mm

(9 ⁷/₈ x 3 ³/₄ x 13 ⁷/₈ in.)

Weight 3.5 kg (7 lbs 13 oz)

SPEAKER SYSTEM SX-LX7

Speaker system 2 way, bass reflex (magnetic shielded)

Speaker units Woofer: 80 mm (3 1/4 in.) cone

Tweeter: 25 mm (1 in.) dome

Impedance 6 ohms

Dimensions (W \times H \times D) 98 x 260 x 191 mm

(3 ⁷/₈ x 10 ³/₈ x 7 ⁵/₈ in.) 1.6 kg (3 lbs 10 oz)

• Design and specifications are subject to change without notice.

PROTECTION OF EYES FROM LASER BEAM DURING SERVICING

This set employs laser. Therefore, be sure to follow carefully the instructions below when servicing.

WARNING!!

WHEN SERVICING, DO NOT APPROACH THE LASER EXIT WITH THE EYE TOO CLOSELY. IN CASE IT IS NECESSARY TO CONFIRM LASER BEAM EMISSION. BE SURE TO OBSERVE FROM A DISTANCE OF MORE THAN 30cm FROM THE SURFACE OF THE OBJECTIVE LENS ON THE OPTICAL PICK-UP BLOCK.



 Caution: Invisible laser radiation when open and interlocks defeated avoid exposure to beam.

Advarsel: Usynlig laserståling ved åbning, når sikkerhedsafbrydere er ude af funktion. Undgå udsættelse for stråling.

VAROITUS!

Laiteen Käyttäminen muulla kuin tässä käyttöohjeessa mainitulla tavalla saataa altistaa käyt-täjän turvallisuusluokan 1 ylittävälle näkymättömälle lasersäteilylle.

VARNING!

Om apparaten används på annat sätt än vad som specificeras i denna bruksanvising, kan användaren utsättas för osynling laserstrålning, som överskrider gränsen för laserklass 1.

Precaution to replace Optical block (SF-P101NR)

Body or clothes electrostatic potential could ruin laser diode in the optical block. Be sure ground body and workbench, and use care the clothes do not touch the diode.

1) After the connection, remove solder shown in right figure.

CAUTION

Use of controls or adjustments or performance of procedures other than those specified herin may result in hazardous radiation exposure.

ATTENTION

L'utillisation de commandes, réglages ou procédures autres que ceux spécifiés peut entraîner une dangereuse exposition aux radiations.

ADVARSEL

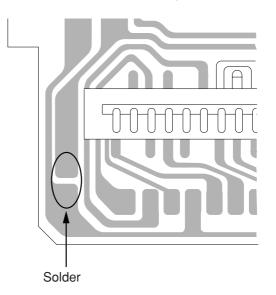
Usynlig laserståling ved åbning, når sikkerhedsafbrydereer ude af funktion. Undgå udsættelse for stråling.

This Compact Disc player is classified as a CLASS 1 LASER product.

The CLASS 1 LASER PRODUCT label is located on the rear exterior.

CLASS 1 LASER PRODUCT
KLASSE 1 LASER PRODUKT
LUOKAN 1 LASER LAITE
KLASS 1 LASER APPARAT

PICK-UP Assy PWB



ELECTRICAL MAIN PARTS LIST

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
IC		NO.		AMP-MICON	C.B	NO.	
	87-A20-446-03 87-A21-319-03 87-017-917-08 87-A21-968-03 87-A22-043-03	10 80 30	C-IC,LA9241ML C-IC,LC78622NE IC,BU4066BCF C-IC,LC75824E IC,SPS-440-1-E1	C114 C115 C116 C161 C162	87-016-044-04 87-016-044-04 87-016-044-04 87-010-553-04 87-010-496-04	10 10 10	CAP,E 100-16 GAS CAP,E 100-16 GAS CAP,E 100-16 GAS CAP,E 47-16 CAP,E 3.3-50 5L
	87-A21-985-04 87-001-576-03 87-002-349-03 87-A21-298-03 8B-CL2-601-03	10 10 10	C-IC,BA5983FM IC,MJM7812FA IC,NJM78M06FA IC,SI-3050F C-IC,LC876564V-5V69	C201 C202 C203 C204 C205	87-012-278-08 87-012-278-08 87-010-421-08 87-A12-090-08 87-012-281-08	30 30 30	C-CAP,U 2200P-50 B C-CAP,U 2200P-50 B CAP, ELECT 4.7-50V CAP,E 4.7-50 SMG C-CAP,U 3900P-50 B
	87-A21-452-1: 87-A21-103-04 87-017-825-0: 87-A21-928-0: 87-A20-440-04	40 10 10	C-IC,BD3876AKS2 C-IC,MM1454XFBE IC,GP1F32T IC,LC72131D-N C-IC,BU1920FS <ez></ez>	C206 C207 C208 C211 C212	87-012-281-08 87-A12-090-08 87-A12-090-08 87-A12-070-08 87-A12-070-08	30 30 30	C-CAP,U 3900P-50 B CAP,E 4.7-50 SMG CAP,E 4.7-50 SMG CAP,E 33-25 SMG CAP,E 33-25 SMG
TRANSISTO	87-A20-913-0: DR	10	IC,LA1837NL	C213 C214 C219 C220 C221	87-012-266-08 87-012-266-08 87-012-286-08 87-012-286-08 87-010-831-08	30 30 30	C-CAP,U 220P-50 B C-CAP,U 220P-50 B C-CAP,U 0.01-25 K B C-CAP,U 0.01-25 K B C-CAP,U,0.1-16F
	87-026-463-04 87-026-245-04 87-A30-198-04 87-026-609-04 87-A30-427-04	80 80 80	TR, 2SA933SRS TR, DTC114ES TR, KTC3199GR TR, KTA1266GR C-TR, DTC114EKA	C222 C231 C232 C298	87-010-831-08 87-010-490-04 87-010-490-04 87-012-282-08	3 0 1 0 1 0	C-CAP,U,0.1-16F CAP, ELECT 0.1-50 CAP, ELECT 0.1-50 C-CAP,U 4700P-50 K B
	87-A30-075-08 87-A30-447-08 87-A30-234-08 87-A30-520-08	40 80 80	C-TR,2SA1235F C-TR,DTA114EKA TR,CSC4115BC TR,2SC5342Y	C299 C301 C302 C303	87-012-286-08 87-012-278-08 87-A10-781-08 87-010-785-08	30 30 30	C-CAP,U 0.01-25 K B C-CAP,U 2200P-50 B C-CAP,U 0.15-10 K B C-CAP,U0.015-25BK
	87-A30-515-08 87-A30-076-08		TR,2SA19790/Y C-TR,2SC3052F	C305 C306	87-A12-063-08 87-012-195-08		CAP,E 220-10 SMG C-CAP,U 100P-50CH
	89-333-266-08 87-A30-107-08 87-A30-060-08 87-A30-190-08	80 70 80	CHIP TR,2SC3326B C-TR,CMBT5401 C-TR,KTC3875GR TR,CC5551	C307 C308 C309 C310	87-012-176-08 87-012-198-08 87-012-274-08 87-010-831-08	30 30 30	C-CAP,U 15P-50 J CH C-CAP,U 180P-50 J CH CHIP CAP,U 1000P-50B C-CAP,U,0.1-16F
	87-A30-306-03 87-A30-307-03	10	TR,2SB1677 TR,2SD2619	C313	87-010-831-08 87-010-831-08	30	C-CAP,U,0.1-16F C-CAP,U,0.1-16F
	87-A30-257-08 87-A30-484-08 87-A30-061-08	30	C-TR,2SD1306E C-TR,KRA102S C-TR,KTA1504GR	C315 C471 C471 C472	87-010-831-08 87-A11-132-08 87-012-286-08 87-A11-132-08	30 30	C-CAP,U,0.1-16F CAP,TC U 0.01-50 K B <except c=""> C-CAP,U 0.01-25 KB<c> CAP,TC U 0.01-50 K B<except c=""></except></c></except>
	87-A30-494-08 87-A30-490-08 87-A30-087-08 87-A30-287-08 87-A30-196-08	80 80 40	TR,2SA1980G C-TR,KRC107S C-FET,2SK2158 C-TR,DTC114TKA TR,2SC4115SRS	C472 C473 CN101 CN201 CN401	87-012-286-08 87-A11-132-08 87-099-411-03 87-049-919-03 87-A61-370-03	30 L0 L0	C-CAP,U 0.01-25 KB <c> CAP,TC U 0.01-50 K B CONN,11P V WHT EH CONN,3P V WHT EH CONN,21P V BLK FMN-BTRK</c>
	89-327-143-08 87-A30-072-08 87-A30-635-08 89-322-405-08 89-503-602-08	80 40 80	C-TR,2SC27140 C-TR,RT1P 144C C-TR,SBT5401F <hr,c> TR,2SC2240GR<c> C-FET,2SK360E<ez,k></ez,k></c></hr,c>	CN4 0 3 CN4 0 4 CN4 0 5 CN4 0 6 CNA 1 0 1	87-A61-272-01 87-A60-900-01 87-099-014-01 87-099-211-01 87-A60-620-01	L 0 L 0 L 0 L 0	CONN,11P V BLK FMN-BTRK CONN,9P V BLK FMN-BTRK CONN,12P V BLK 6216 CONN,4P V BLK 6216 <ez> CONN,3P V 2MM JMT</ez>
DIODE	87-A30-086-0 87-A30-074-08		C-TR,CSD1306E <ez,k> C-TR,RT1P141C<ez,k></ez,k></ez,k>	L151 R229 R230 R231 R232	87-A50-333-03 87-A00-258-08 87-A00-258-08 87-A00-258-08 87-A00-258-08	L 0 3 0 3 0 3 0	COIL,OSC 9.43MHZ RES,M/F 0.22-1W J RES,M/F 0.22-1W J RES,M/F 0.22-1W J RES,M/F 0.22-1W J
	87-020-465-08 87-070-274-08 87-070-136-08 87-A40-313-08 87-A40-270-08	80 80 80	DIODE,1SS133 (110MA) DIODE,1N4003 SEM ZENER,MTZJ5.1B C-DIODE,MC2840 C-DIODE,MC2838	R319 R324 TH201 TH202	87-022-239-08 87-022-239-08 87-A91-042-08 87-A91-042-08	30 30 30	C-RES U 10K-1/16WF C-RES U 10K-1/16WF C-THMS,100K 55001 C-THMS,100K 55001
	87-A40-269-08 87-A40-505-04 87-017-654-08 87-017-650-08	40 60	C-DIODE, MC2836 C-DIODE, KDS181 DIODE, GBUGJL6131 DIODE, 1SS119	FRONT C.B C101 C102	87-012-195-08 87-010-560-04		C-CAP,U 100P-50CH CAP,E 10-50 GAS
	87-A40-504-04 87-A40-748-08 87-A40-437-08	30	C-DIODE, KDS184 ZENER, UZ5.6BSA ZENER, MTZJ4.3B	C103 C104 C105	87-010-829-08 87-010-829-08 87-012-195-08	30	CAP, U 0.047-16 CAP, U 0.047-16 C-CAP,U 100P-50CH
	87-017-148-08		ZENER, HZS6A1L	C106	87-012-195-08	30	C-CAP,U 100P-50CH

REF. NO.		ANRI O.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
C107	87-012-195-080		100P-50CH	C47	87-010-831-08		C-CAP, U, 0.1-16F <u, c="" ez,="" k,=""></u,>
C108	87-010-831-080		,0.1-16F	C48	87-012-182-08		C-CAP,U 27P-50 CH
C111 C112	87-012-274-080		P,U 1000P-50B	C51 C53	87-012-199-08		C-CAP, U 220P-50 J CH
C112 C113	87-010-560-040 87-012-286-080		0-50 GAS 0.01-25 K B	C53	87-012-195-08 87-010-263-04		C-CAP,U 100P-50CH CAP,E 100-10 <u,ez,k,c></u,ez,k,c>
		,-					,
C114 CN101	87-012-286-080 87-A61-370-010		0.01-25 K B P V BLK FMN-BTRK	C57 C58	87-012-184-08		C-CAP,U 33P-50 CH C-CAP,U 33P-50 CH
CN101 CN102	87-099-201-010		H BLK 6216	C59	87-012-184-08 87-010-263-04		CAP, E 100-10
FFC101	8B-CL2-660-010		E,21P 1.0	C60	87-010-831-08		C-CAP, U, 0.1-16F <u, c="" ez,="" k,=""></u,>
LCD101	8B-CL2-605-010	LCD, AIW	4277-30PIN BCL-2	C61	87-010-831-08	30	C-CAP, U, 0.1-16F <u, c="" ez,="" k,=""></u,>
LED101	87-A40-317-080	LED, SLR	-342VCT31 RED	C62	87-A12-058-04	10	CAP,E 470-6.3 SMG
LED102	87-A92-077-010		U1BE16C-SLF73 BLU/UMB	C65	87-010-404-04	ł 0	CAP,E 4.7-50 SME
LED103	87-A92-077-010		U1BE16C-SLF73 BLU/UMB	C66	87-010-831-08		C-CAP, U, 0.1-16F <u, c="" ez,="" k,=""></u,>
LED104 LED104	87-A41-054-010 87-A92-078-010		V1D10CXM-S GREEN <u,ez,k> U1D10CXM-SLF38 GR<hr,c></hr,c></u,ez,k>	C67 C69	87-010-263-04 87-012-197-08		CAP,E 100-10 <u,ez,k,c> C-CAP,U 150P-50 CH</u,ez,k,c>
LED105 LED105	87-A41-054-010 87-A92-078-010		V1D10CXM-S GREEN <u,ez,k> U1D10CXM-SLF38 GR<hr,c></hr,c></u,ez,k>	C70 C71	87-018-134-08 87-018-208-08		CAP,TC U 0.01-16 NY UP050 <c> CAP,TC U 0.047-50 ZF<c></c></c>
S101	87-A91-633-010		XRE012103PVB25FINA 1-2	C72	87-012-286-08		C-CAP, U 0.01-25 K B <c></c>
S111	87-A90-095-080	SW, TACT	EVQ11G04M	C73	87-010-831-08		C-CAP,U 0.1-16 ZF <c></c>
S112	87-A90-095-080	SW,TACT	EVQ11G04M	C74	87-018-208-08	30	CAP,TC U 0.047-50 ZF <c></c>
S113	87-A90-095-080		EVQ11G04M	C75	87-010-831-08		C-CAP,U 0.1-16 ZF <c></c>
S114	87-A90-095-080		EVQ11G04M	C76	87-010-831-08		C-CAP, U 0.1-16 ZF <c></c>
S115 S116	87-A90-095-080 87-A90-095-080		EVQ11G04M EVQ11G04M	C81 C82	87-010-417-04 87-010-417-04		CAP,E 2.2-35 5L CAP,E 2.2-35 5L
S117	87-A90-095-080		EVQ11G04M	C83	87-012-277-08		C-CAP, U 1800P-50 B
				C84	87-012-277-08	2 N	C-CAP, U 1800P-50 B
CD C.B				C93	87-A10-260-08		C-CAP, U 0.1-16 K B <u, c="" ez,="" k,=""></u,>
				C94	87-A10-260-08		C-CAP,U 0.1-16 K B <u,ez,k,c></u,ez,k,c>
C1 C2	87-010-418-040		.3-25 5L 0.01-25 K B	C95	87-012-286-08		C-CAP, U 0.01-25 K B
C3	87-012-286-080 87-010-263-040			C100	87-018-131-08	0	CAP,TC U 1000P-50 <ez,k></ez,k>
C4	87-A12-063-040		20-10 SMG	C101	87-012-195-08	30	C-CAP,U 100P-50CH
C5	87-012-286-080	C-CAP,U	0.01-25 K B	C102	87-012-195-08		C-CAP,U 100P-50CH
C6	87-010-234-040	CAP,E 4	7-16 51.	C103 C104	87-012-195-08 87-012-195-08		C-CAP,U 100P-50CH C-CAP,U 100P-50CH
C7	87-012-274-080		P,U 1000P-50B	C105	87-012-195-08		C-CAP, U 100P-50CH
C8	87-010-787-080	C-CAP,U	0.022-25 K B				
C9	87-A12-063-040		20-10 SMG	C106	87-010-494-04		CAP, E 1-50 GAS
C10	87-010-263-040	CAP,E I	00-10 M 11L SME	C110 C120	87-010-831-08 87-A12-326-08		C-CAP,U,0.1-16F CAP,E 1000-16 RS
C11	87-A10-794-080	C-CAP,U	0.15-16 Z F	C121	87-012-286-08		C-CAP,U 0.01-25 K B
C12	87-010-071-040	,	-50 M 5L SRE	C123	87-012-286-08	30	C-CAP,U 0.01-25 K B
C13 C14	87-010-788-080 87-010-405-040	,	0.033-25 Z F 0-50 M 11L SME	C124	87-012-199-08	R O	C-CAP,U 220P-50 K B
C16	87-015-962-040		.22-50 M 5L SRE	C125	87-012-270-08		C-CAP, U 470P-50 K B
				C126	87-012-270-08		C-CAP,U 470P-50 K B
C17 C18	87-012-268-080 87-010-785-080		330P-50 B 0.015-25BK	C127 C200	87-012-199-08 87-018-131-08		C-CAP,U 220P-50 J CH CAP,TC U 1000P-50 <ez,k></ez,k>
C19	87-A10-706-080		0.33-16 Z F	C200	07-010-131-00	0	CAF, 1C 0 1000F-30CE2, R2
C20	87-010-788-080	C-CAP,U	0.033-25 Z F	C201	87-012-199-08	30	C-CAP,U 220P-50 J CH
C21	87-A10-794-080	C-CAP,U	0.15-16 Z F	C202	87-012-199-08		C-CAP, U 220P-50 J CH
C22	87-012-280-080	C-CAD II	3300P-50 K B	C213 C214	87-010-758-08 87-010-758-08		C-CAP,U 0.068-25F C-CAP,U 0.068-25F
C23	87-A10-504-080	,	0.047-16 K B	C215	87-010-544-04		CAP, E 0.1-50 SME
C24	87-A10-025-080		0.22-16Z F	9016	05 010 544 04		
C25 C26	87-012-272-080 87-A10-706-080		680P-50 B 0.33-16 Z F	C216 C217	87-010-544-04 87-012-278-08		CAP,E 0.1-50 SME C-CAP,U 2200P-50 B
020	07 1110 700 000	c cm, c	0.33 10 2 1	C218	87-012-278-08		C-CAP, U 2200P-50 B
C28	87-012-286-080	,	0.01-25 K B	C301	87-010-235-08		CAP,E 470-16 SME
C29	87-012-282-080		4700P-50 K B	C302	87-010-112-04	10	CAP,E 100-16
C30 C31	87-012-199-080 87-010-068-040		220P-50 J CH .22-50 5L	C303	87-010-553-04	10	CAP,E 47-16 GAS
C32	87-015-680-040		7-10 7L	C304	87-010-404-04	ł 0	CAP,E 4.7-50 SME
922	07 010 071 040	63.D. F. 4	50 W 57 0DD	C305	87-010-494-04		CAP,E 1-50 GAS
C33 C34	87-010-071-040 87-012-280-080		-50 M 5L SRE 3300P-50 K B	C495 C496	87-010-831-08 87-012-286-08		C-CAP,U,0.1-16F C-CAP,U 0.01-25 K B
C35	87-012-286-080		0.01-25 K B	3130	1. 112 200 00	-	20 12
C36	87-010-374-040			C501	87-A12-071-04		CAP, E 47-25 SMG
C37	87-010-404-040	CAP,E 4	.7-50 SME	C502 C503	87-A12-071-04 87-012-274-08		CAP,E 47-25 SMG CHIP CAP,U 1000P-50B
C38	87-010-831-080	C-CAP,U	,0.1-16F	C503	87-012-274-08		CHIP CAP, U 1000P-50B
C39	87-012-274-080	CHIP CA	P,U 1000P-50B	C511	87-012-276-08		C-CAP,U 1500P-50 K B
C40 C41	87-012-162-080 87-012-280-080		1P-50 CK 3300P-50 K B	C512	87-012-276-08	2 N	C-CAP,U 1500P-50 K B
C41	87-012-280-080		15P-50 J CH	C512 C521	87-012-276-08		C-CAP,U 0.068-25F
				C522	87-A11-070-08	30	C-CAP,U 0.033-16 K B
C45 C46	87-010-831-080 87-010-831-080	,	,0.1-16F ,0.1-16F	C524 C525	87-010-401-04 87-A10-260-08		CAP,E 1-50 SME C-CAP,U 0.1-16 K B
C#U	2, 010-031-000	C-CAF,U	,	C323	5, AIO-200-06	, ,	COMI,O O.I-IO N D

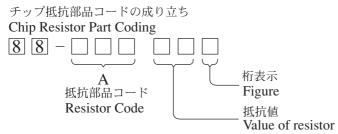
REF. NO.		ANRI O.	DESCRIPTION		REF. NO.		KANRI NO.	DESCRIPTION
C526 C527 C528 C531 C532	87-A10-260-080 87-012-286-080 87-012-286-080 87-010-421-040 87-010-421-040	C-CAP,U C-CAP,U C-CAP,U CAP,E 4.	0.1-16 K B 0.01-25 K B 0.01-25 K B 7-50 5L 7-50 5L		CN142 FFC141 FFC142 S141 S142	87-A60-082-01 88-908-201-11 88-905-121-11 87-A90-095-08 87-A90-095-08	.0 .0 .0	CONN,05P H 9604S-05F <ez,k,hr,c> FF-CABLE,8P 1.25 FF-CABLE, 5P 120MM SW,TACT EVQ11G04M SW,TACT EVQ11G04M</ez,k,hr,c>
C535 C536 C537 C538 C539	87-A10-504-080 87-A10-504-080 87-010-493-040 87-010-493-040 87-012-281-080	C-CAP,U CAP,E 0. CAP,E 0. C-CAP,U	0.047-16 K B 0.047-16 K B 47-50 M 5L SRE 47-50 M 5L SRE 3900P-50 B		S143 S144 S145 S146 S147	87-A90-095-08 87-A90-095-08 87-A90-095-08 87-A90-095-08 87-A90-095-08	0 0 0	SW,TACT EVQ11G04M SW,TACT EVQ11G04M SW,TACT EVQ11G04M SW,TACT EVQ11G04M SW,TACT EVQ11G04M
C540 C541 C542 C543 C544	87-012-281-080 87-A10-260-080 87-A10-260-080 87-A10-260-080 87-A10-260-080	C-CAP,U C-CAP,U	3900P-50 B 0.1-16 K B 0.1-16 K B 0.1-16 K B 0.1-16 K B		S148 S149 SUPPLY C.E	87-A90-095-08 87-A90-095-08		SW,TACT EVQ11G04M SW,TACT EVQ11G04M
C545 C546 C547 C549 C550	87-A10-260-080 87-010-403-040 87-010-401-040 87-010-071-040 87-010-071-040	CAP,E 3. CAP,E 1- CAP,E 1-	0.1-16 K B 3-50 M 11L SME 50 SME 50 M 5L SRE 50 M 5L SRE		C1 C2 C3 C201 C202	87-A11-148-08 87-018-104-08 87-018-104-08 87-A10-520-00 87-016-051-00	0	CAP,TC U 0.1-50Z <ez,k> CAP,TC U 10P-50<ez,k> CAP,TC U 10P-50<ez,k> CAP,E 3300-35 M SMG CAP,E 2200-35 M SMG</ez,k></ez,k></ez,k>
C595 C603 C604 C605 C607	87-012-286-080 87-010-402-040 87-010-402-040 87-010-408-040 87-010-405-040	CAP,E 2. CAP,E 2. CAP,E 47 CAP,E 10	-50		C203 C204 C205 C206 C207	87-A12-317-08 87-A12-317-08 87-010-831-08 87-010-831-08 87-A12-317-08	0	C-CAP,U 0.1-50 Z F C-CAP,U 0.1-50 Z F C-CAP,U,0.1-16F C-CAP,U,0.1-16F C-CAP,U 0.1-50 Z F
C608 C609 C610 C611 C612	87-010-405-040 87-010-759-080 87-010-384-040 87-012-286-080 87-012-286-080	CAP,E 10 C-CAP,U, CAP,E 10 C-CAP,U C-CAP,U	-50 0.1-25F 0-25 SME 0.01-25 K B 0.01-25 K B		C208 C209 C210 C211 C212	87-A12-317-08 87-010-831-08 87-010-831-08 87-A12-074-08 87-010-831-08	0	C-CAP,U 0.1-50 Z F C-CAP,U,0.1-16F C-CAP,U,0.1-16F CAP,E 470-25 SMG C-CAP,U,0.1-16F
C702 C703 C913 CN1 CN2	87-010-374-040 87-010-831-080 87-012-286-080 87-A60-429-010 87-A60-623-010	C-CAP,U, C-CAP,U CONN,16P			C213 C214 C215 C216 C217	87-010-831-08 87-A12-068-08 87-016-521-01 87-010-831-08 87-010-380-04	0.0	C-CAP,U,0.1-16F CAP,E 470-16 SMG CAP,E2200-16 SMG C-CAP,U,0.1-16F CAP,E 47-16 M 11L SMG
CN4 CN201 CN302 CN501 CNA301	87-A60-900-010 87-A60-059-010 87-A60-619-010 87-A61-272-010 87-099-410-010	CONN,08P CONN,2P CONN,11P	V BLK FMN-BTRK V 9604S-08C V 2MM JMT V BLK FMN-BTRK V WHT EH		CN201 CN202 CNA201 CNA203 PR201	87-009-195-01 87-099-043-01 8B-CL2-671-01 8B-CL2-668-01 87-A91-935-08	.0 .0 .0	CONN,5P V WHT EH CONN 2P V WHT EH CONN ASSY,11P EH CONN ASSY,10P EH PROTECTOR,1A 20P 60V
CON2 FFC1 FFC4 FFC501	86-ZG1-609-010 8B-CL2-663-010 8B-CL2-661-010 8B-CL2-662-010	FF-CABLE FF-CABLE	,16P 1.0 ,9P 1.0		PT C.B C1	87-A10-479-08	10	CAP,CER 2200P-250 M E KH <except hr=""></except>
J202 JR58 JR101 JW38	87-YP6-608-010 87-A50-189-080 87-A50-189-080 87-008-372-080	TERMINAL C-COIL,S C-COIL,S	•	À	C14 C16 CN1 CN1	87-A10-831-08 87-010-496-08 87-A60-645-01 87-A60-851-01	0 0 0	CAP,E 1000-25 M SMG CAP,E 3.3-50 5L CONN,3P V VH <u,ez,k,c> CONN,9P V VH<hr/></u,ez,k,c>
JW39 JW43 L1 L2	87-008-372-000 87-008-372-010 87-008-372-010 87-003-102-080 87-003-146-080	FLTR, EMI FLTR, EMI COIL, 10U	BLO1 RN1 BLO1 RN1 BLO1 RN1 H J LALO2 H J LALO2	<u>^</u>	CNA1 CNA2 CNA3 F1 FC1	8B-CL2-669-01 88-805-021-09 8B-CL2-673-01 87-A91-224-01 87-033-213-08	.0 .0	CONN ASSY,3P V STBY CONN ASSY,2P+HR> CONN ASSY,7P V RY <hr/> FUSE,1.25A 125V <u> FUSE CLAMP,PFC5000<u></u></u>
L3 L4 L5 L6	87-008-372-080 87-003-102-080 87-003-152-080 87-003-102-080	COIL, 10U	BL01 RN1 H J LAL02 UH J LAL02 H J LAL02	<u>^</u>	FC2 PT1 PT1 PT1 PT2	87-033-213-08 8A-NF8-661-01 8A-NF8-662-01 8A-NF8-663-01	.0	FUSE CLAMP, PFC5000 <u> PT, SUB ANF-8 (U)<u,c> PT, SUB ANF-8 (E)<ez,k> PT, SUB ANF-8 (H)<hr/></ez,k></u,c></u>
L7 L8 L201 L202	87-003-102-080 87-003-102-080 87-003-102-080 87-003-383-010 87-003-383-010	COIL,10U COIL,10U COIL,1UH	H J LAL02 H J LAL02 K			8B-CL2-652-01 8B-CL2-652-01 8B-CL2-653-01	.0	PT,BCL-2 U <u> PT,BCL-2 EZ<ez,k> PT,BCL-2 HR<hr/></ez,k></u>
SFR130 X1	87-024-437-080 87-A70-046-010	SFR,100K	H RH063MC 16.934MHZ		PT2 PT2 PT2 R3 RY1	8B-CL2-654-01 87-A01-010-08 87-A90-977-01	.0 .0	PT,BCL-2 C <c> RES,SD 2.2M-1/2W J RCR50+<c> RELAY,AC12V DG12D1-0(M)<u,ez,k,c></u,ez,k,c></c></c>
KEY C.B				<u> </u>	S1 T1 T2	87-A90-234-01 87-A60-317-01 87-A60-317-01	.0	SW,SL 1-2-2 SWS2201 <hr/> TERMINAL, 1P MSC TERMINAL, 1P MSC
C100 C142 CN141 CN141	87-018-131-080 87-010-553-040 87-A60-156-010 87-A60-079-010	CAP,E 47 CONN,08P	1000P-50K -16 M 5L SRE <hr,c> H FE<u> H 9604S-08F<ez,k,hr,c< td=""><td></td><td>TUNER C.B</td><td></td><td></td><td></td></ez,k,hr,c<></u></hr,c>		TUNER C.B			
CN142	87-A60-153-010	CONN,05P	H FE <u></u>		C701	87-A12-071-08	0	CAP,E 47-25 SMG

REF. NO.	PART NO. KAN		REF. NO.	PART NO. KA	NRI DESCRIPTION
C702 C703 C704 C709 C711	87-A12-090-080 87-012-286-080 87-012-286-080 87-012-195-080 87-A12-062-080	CAP,E 4.7-50 SMG C-CAP,U 0.01-25 K B C-CAP,U 0.01-25 K B C-CAP,U 100P-50CH CAP,E 100-10 SMG	C821 C822 C823 C828 C829	87-012-286-080 87-012-286-080 87-012-286-080 87-010-196-080 87-010-196-080	C-CAP,U 0.01-25 K B C-CAP,U 0.01-25 K B C-CAP,U 0.01-25 K B
C712 C713 C714 C715 C717	87-010-196-080 87-012-286-080 87-012-286-080 87-012-195-080 87-012-286-080	CHIP CAPACITOR, 0.1-25 C-CAP, U 0.01-25 K B C-CAP, U 0.01-25 K B C-CAP, U 100P-50 J CH <ez, k=""> C-CAP, U 0.01-25 K B</ez,>	C859 C861 C862 C863 C864	87-012-286-080 87-012-199-080 87-012-199-080 87-012-270-080 87-A12-091-080	C-CAP,U 220P-50 J CH <ez> C-CAP,U 220P-50 J CH<ez></ez></ez>
C719 C720 C721 C722 C723	87-012-286-080 87-012-195-080 87-012-176-080 87-012-176-080 87-012-274-080	C-CAP,U 0.01-25 K B C-CAP,U 100P-50 J CH <ez,k> C-CAP,U 15P-50 J CH C-CAP,U 15P-50 J CH CHIP CAP,U 1000P-50B</ez,k>	C865 C866 C867 C868 C869	87-010-196-080 87-A12-091-080 87-012-286-080 87-012-184-080 87-012-180-080	CAP,E 10-50 SMG <ez></ez>
C725 C727 C728 C753 C755	87-012-274-080 87-010-196-080 87-A12-063-080 87-012-195-080 87-012-286-080	CHIP CAP,U 1000P-50B CHIP CAPACITOR,0.1-25 CAP,E 220-10 SMG C-CAP,U 100P-50 J CH <ez,k> C-CAP,U 0.01-25 K B</ez,k>	C940 C942 C947 C949 C952	87-012-286-080 87-012-172-080 87-012-286-080 87-A10-039-080 87-012-286-080	
C756 C757 C758 C761 C762	87-012-286-080 87-012-188-080 87-012-167-080 87-010-196-080 87-012-286-080	C-CAP,U 0.01-25 K B C-CAP,U 47P-50 CH C-CAP,U 5P-50 CH CHIP CAPACITOR,0.1-25 C-CAP,U 0.01-25 K B <ez,k></ez,k>	C958 C959 C960 C961 C962	87-012-286-080 87-010-196-080 87-010-196-080 87-012-170-080 87-A12-087-080	CHIP CAPACITOR, 0.1-25
C763 C764 C765 C766 C768	87-010-829-080 87-012-337-080 87-012-286-080 87-012-286-080 87-012-286-080	C-CAP,U 0.047-16 Z F C-CAP,U 56P-50 CH <u,hr,c> C-CAP,U 0.01-25 K B C-CAP,U 0.01-25 K B C-CAP,U 0.01-25 K B<ez,k></ez,k></u,hr,c>	CF801 CF801 CF802 CF802 CN601	87-008-261-010 87-008-423-010 87-008-261-010 82-785-747-010 87-099-029-010	FLTR, CF SFE10.7MS3G-A <ez, k=""></ez,>
C769 C770 C771 C772 C773	87-A12-071-080 87-010-829-080 87-A12-070-080 87-010-829-080 87-010-196-080	CAP,E 47-25 SMG C-CAP,U 0.047-16 Z F CAP,E 33-25 SMG C-CAP,U 0.047-16 Z F CHIP CAPACITOR,0.1-25 <u,hr,c></u,hr,c>	CN602 FFC601 FFC602 FFE801 FFE801	87-099-211-010 88-912-081-110 88-904-081-110 A8-6ZA-19H-030 A8-8ZA-194-030	CONN,4P V BLK 6216 <ez> FF-CABLE,12P 1.25 80MM FF-CABLE,4P 1.25 80MM<ez> 6ZA-1 FEMENM<ez,k> 8ZA-1 FEMUNM<u,hr,c></u,hr,c></ez,k></ez></ez>
C773 C774 C775 C776 C777	87-015-785-080 87-A12-062-080 87-A12-090-080 87-012-286-080 87-A12-086-080	CHIP CAPACITOR, 0.1-25 <ez, k=""> CAP, E 100-10 SMG CAP, E 4.7-50 SMG C-CAP, U 0.01-25 K B CAP, E 0.47-50 SMG</ez,>	J801 J802 L771 L772 L781	87-A60-657-010 87-033-241-010 87-A50-266-010 87-A90-733-010 87-005-847-080	TERMINAL,4P HSP-154V5-02 <u,hr,c> TERMINAL,ANT 2P AJ-2040<ez,k> COIL,FM DET-2N(TOK) FLTR,PCFAZH-450(TOK) COIL,2.2UH K CECS</ez,k></u,hr,c>
C778 C779 C780 C781 C782	87-A12-087-080 87-A12-087-080 87-010-196-080 87-A12-091-080 87-A12-091-080	CAP,E 1-50 SMG CAP,E 1-50 SMG CHIP CAPACITOR,0.1-25 CAP,E 10-50 SMG CAP,E 10-50 SMG	L791 L792 L832 L941 L942	87-A50-027-010 87-A50-027-010 87-005-847-080 87-A50-020-010 87-A50-019-010	COIL,1 POLE MPX(TOK) <ez,k) cecs="" coil,1="" coil,2.2uh="" coil,ant="" k="" lw(coi)252khz<ez,k="" mpx(tok)<ez,k)="" pole=""> COIL,OSC LW(COI)856KHZ<ez,k></ez,k></ez,k)>
C783 C784 C785 C786 C787	87-012-286-080 87-012-286-080 87-010-805-080 87-010-805-080 87-012-280-080	C-CAP,U 0.01-25 K B C-CAP,U 0.01-25 K B C-CAP,S 1-16 Z F C-CAP,S 1-16 Z F C-CAP,U 3300P-50 K B	L981 L981 TC942 X721 X721	87-NF4-650-010 87-NF4-651-110 87-011-164-010 87-A70-306-010 87-A70-061-010	COIL, AM PACK4N(TOK) < U, HR, C > COIL, AM PACK2N(TOM) < EZ, K > TRIMMER, CER 30P 4.5X3.9 VCT31 < EZ, K > VIB, XTAL4.5MHZ CSA-309ST < EZ, K, HR, C > VIB, XTAL 4.500MHZ CSA-309 < U > VIB, XTAL 4.500M
C788 C789 C790 C791 C793	87-012-280-080 87-012-275-080 87-012-275-080 87-A12-091-080 87-012-273-080	C-CAP,U 3300P-50 K B C-CAP,U 1200P-50 B C-CAP,U 1200P-50 B CAP,E 10-50 SMG C-CAP,U 820P-50 B <u,hr,c></u,hr,c>	X750 X851 JACK C.B	87-030-394-010 87-A70-091-010	VIB,CER 3.5498MHZ CSA MGF228 <ez,k> VIB,XTAL 4.332MHz CSA-309<ez></ez></ez,k>
C793 C794 C795 C795 C796	87-012-274-080 87-A12-092-080 87-010-829-080 87-010-596-080 87-A12-089-080	C-CAP,U 1000P-50 KB <ez,k> CAP,E 22-50 SMG C-CAP,U 0.047-16 ZF<ez,k> C-CAP,U 0.047-16 KR<u,hr,c> CAP,E 3.3-50 SMG</u,hr,c></ez,k></ez,k>	CN202 FFC202 J201 J501	87-A60-059-010 88-908-121-110 87-A61-595-010 87-009-610-010	CONN,08P V 9604S-08C FF-CABLE,8P 1.25 120MM JACK,PIN 3P R/W/B JACK,PIN 2P WHT W/O SW
C797 C797 C798 C798 C799 C812 C813	87-012-276-080 87-012-278-080 87-012-276-080 87-012-278-080 87-010-829-080 87-010-197-080	C-CAP,U 1500P-50 K B <ez,k,hr> C-CAP,U 2200P-50 K B<u,c> C-CAP,U 1500P-50 K B<ez,k,hr> C-CAP,U 2200P-50 K B<u,c> C-CAP,U 0.047-16 Z F C-CAP,U 0.01-25 K B CAP, CHIP 0.01 DM<u,hr,c></u,hr,c></u,c></ez,k,hr></u,c></ez,k,hr>	MOSW C.B CN151 CN151 M151 S151 S152	87-A60-153-010 87-A60-082-010 87-A90-036-010 87-A90-117-010 87-A90-117-010	CONN,05P H FE <u> CONN,05P H 9604S-05F<ez,k,hr,c> MOT ASSY,RF-300CA-11440 SW,PUSH 1-1-1 MPU10371MLB0 MIC SW,PUSH 1-1-1 MPU10371MLB0 MIC</ez,k,hr,c></u>
C814 C819 C820	87-012-286-080 87-010-197-080 87-A12-071-080	C-CAP,U 0.01-25 K B CAP, CHIP 0.01 DM <u,hr,c> CAP,E 47-25 SMG</u,hr,c>	HP C.B		

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
C302	87-012-274- 87-012-286- 87-012-274- 87-012-286- 8B-CL2-672-	080 080 080	CHIP CAP,U 1000P-50B <u,ez,k,c> C-CAP,U 0.01-25 KB CHIP CAP,U 1000P-50B<u,ez,k,c> C-CAP,U 0.01-25 KB CONN ASSY,5P EH</u,ez,k,c></u,ez,k,c>
J201 CD-MOTOR	87-A60-420- C.B	010	JACK, 3.5 ST (MSC)
M1 M2 PIN3 SW1	S0-M10-A09- 9X-262-576- S2-369-750- S4-S13-A01-	910 000	MOTOR SLED ASSY MOTOR GEAR ASSY PLUG, 6P SW, LEAF
RELAY C.E	,		

⚠ C1 ⚠ C2	87-A10-479-080	CAP, CER 2200P-250 ME KH <hr/>
<u> </u>	87-A10-479-080	CAP, CER 2200P-250 ME KH <hr/>
CN2	87-A60-619-010	CONN, 2P V 2MM JMT <hr/>
⚠ RY1	87-A91-281-010	RELAY, AC DC12V OSA-SS-212DM5 <hr/>

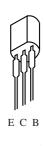
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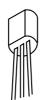
チップ抵抗 Chip resistor

容量	種類	許容誤差	記号	寸法/Dime	ensions (mm)			抵抗コード : A
Wattage	Type	Tolerance	Symbol	外形/Form	L	W	t	Resistor Code : A
1/16W	1005	± 5%	CJ		1.0	0.5	0.35	104
1/16W	1608	± 5%	CJ		1.6	0.8	0.45	108
1/10W	2125	± 5%	CJ		2	1.25	0.45	118
1/8W	3216	± 5%	CJ		3.2	1.6	0.55	128

TRANSISTOR ILLUSTRATION



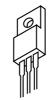
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ЕСВ

2SA1979O/Y

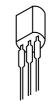
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ВСЕ

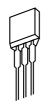
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2SD2619



E C

CSC4115BC



ЕСВ

DTC114ES

2SC4115SRS

2SA933SRS

KTC3199GR



2SK2158

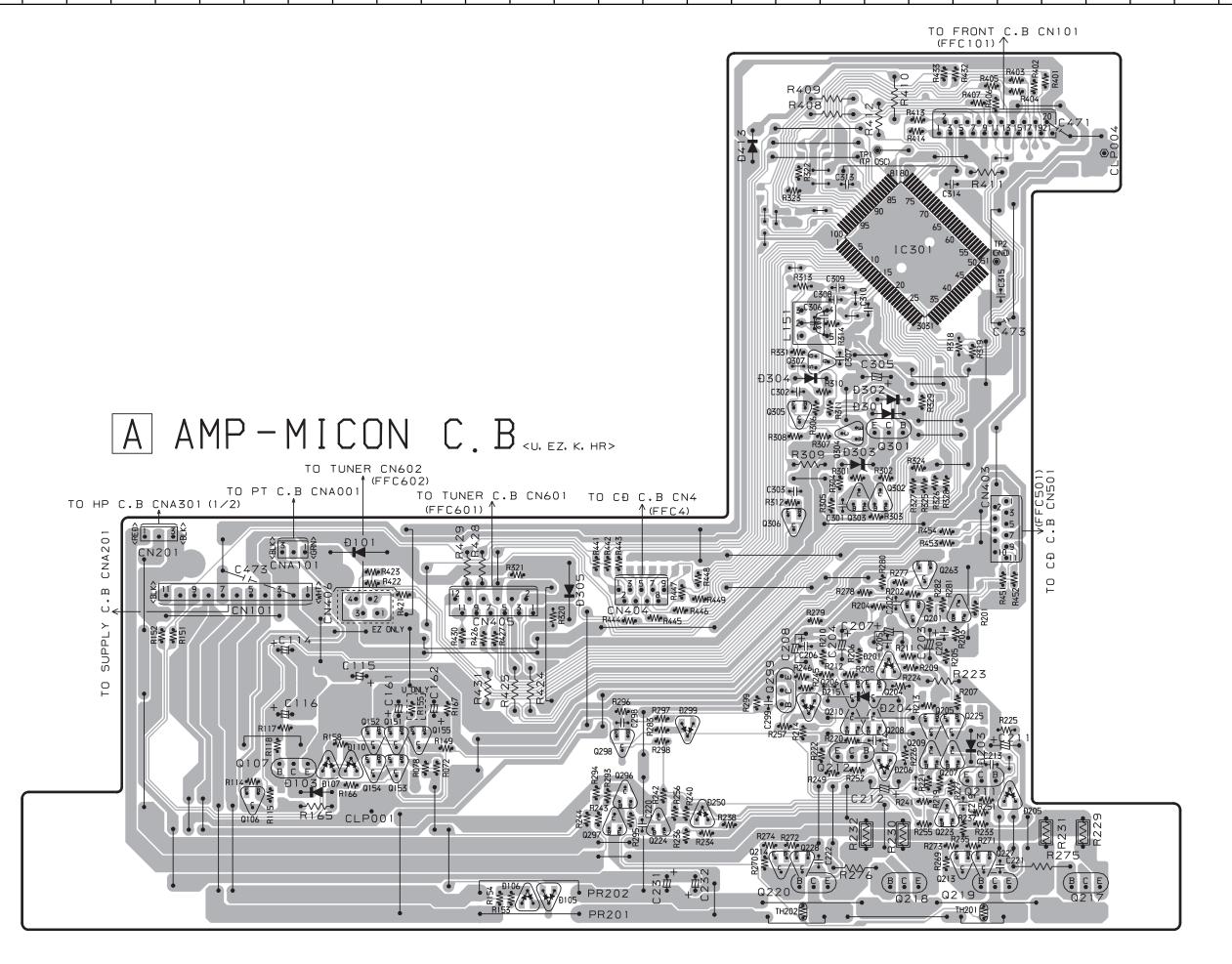


2SK360E



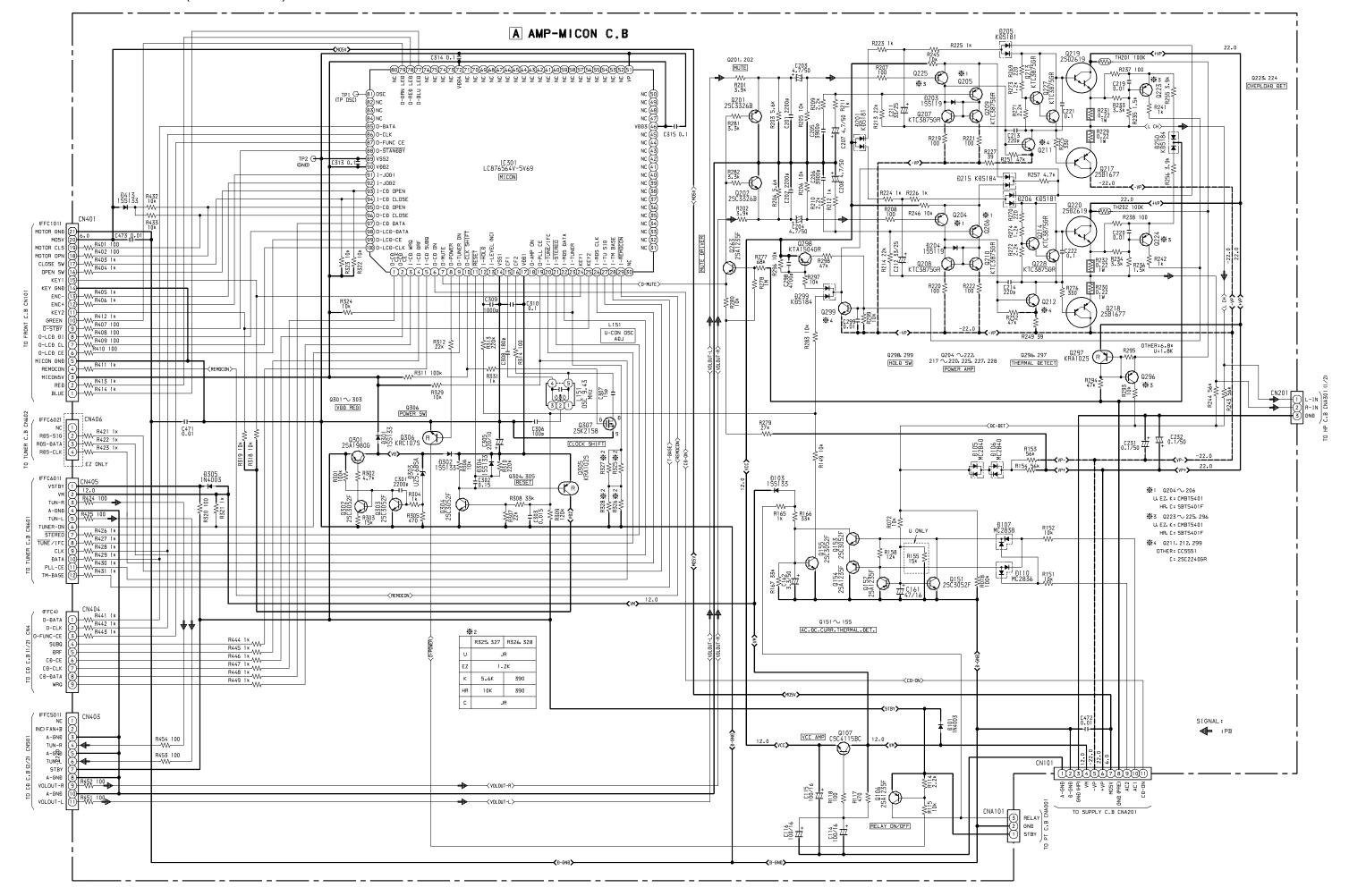
2SA1235F DTC114TKA
2SC2714O KRA102S
2SC3052F KRC107S
2SC3326B KTA1504GR
2SD1306E KTC3875GR
CMBT5401 RT1P141C
CSD1306E RT1P144C
DTA114EKA SBT5401F

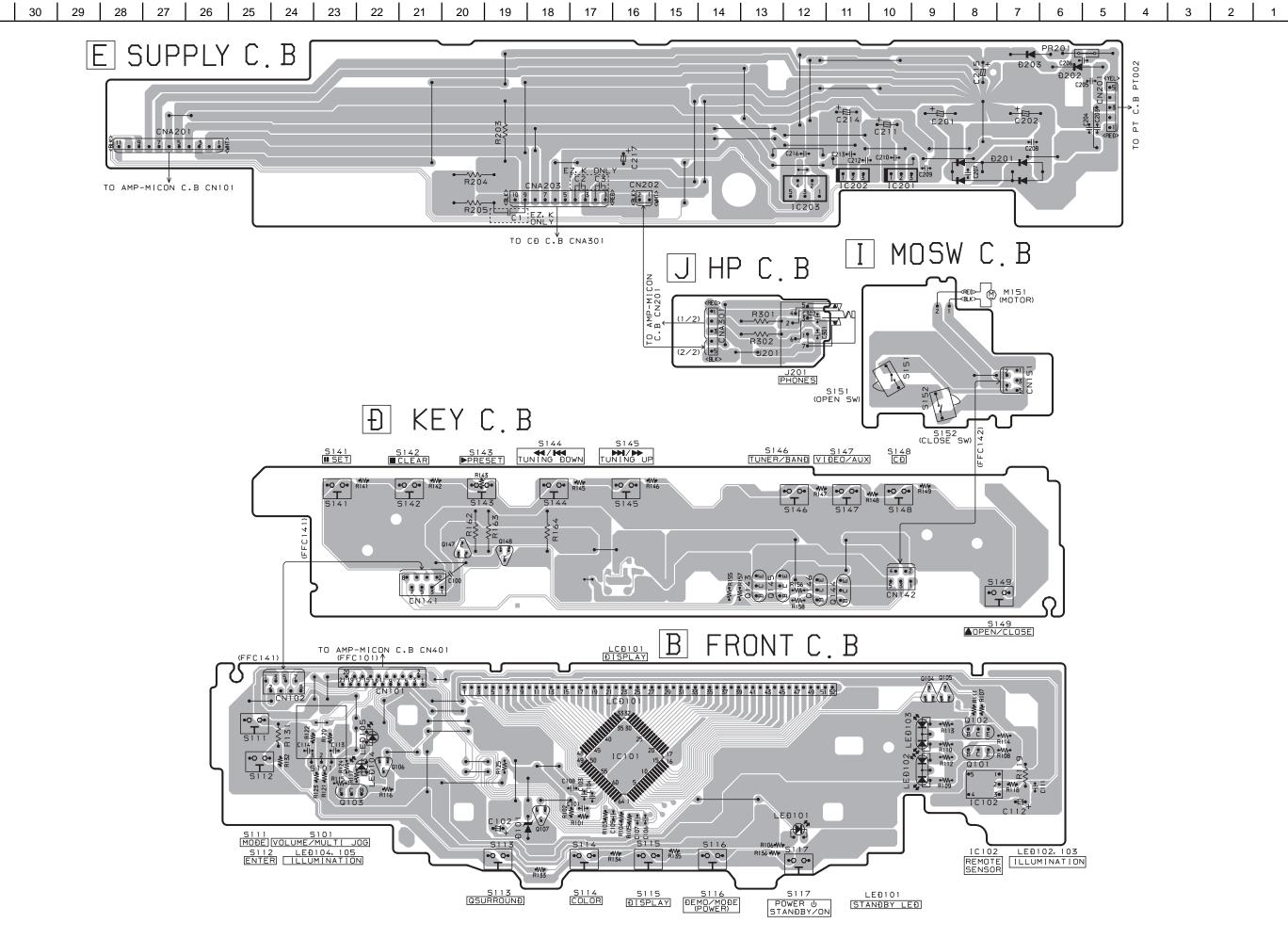
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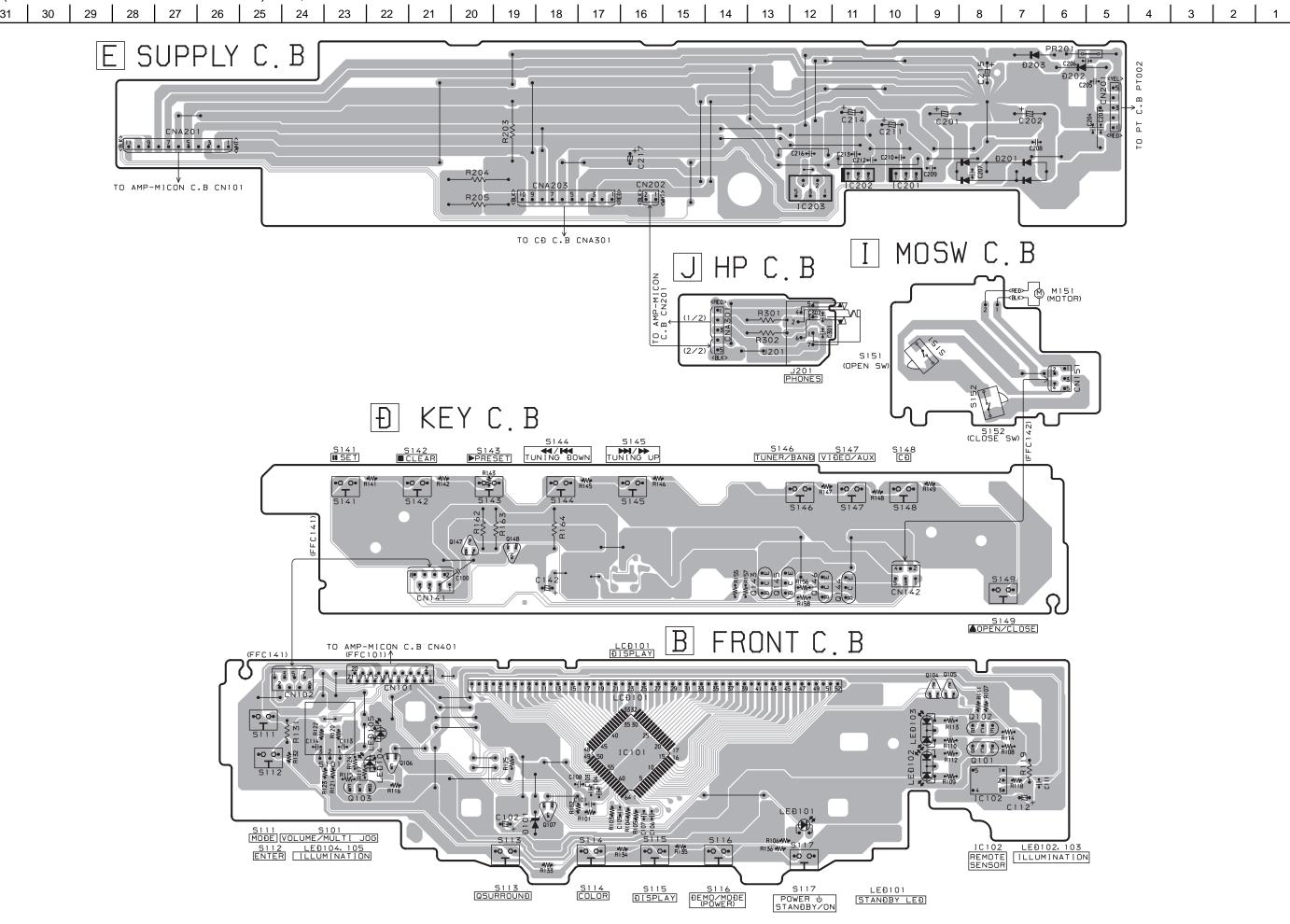


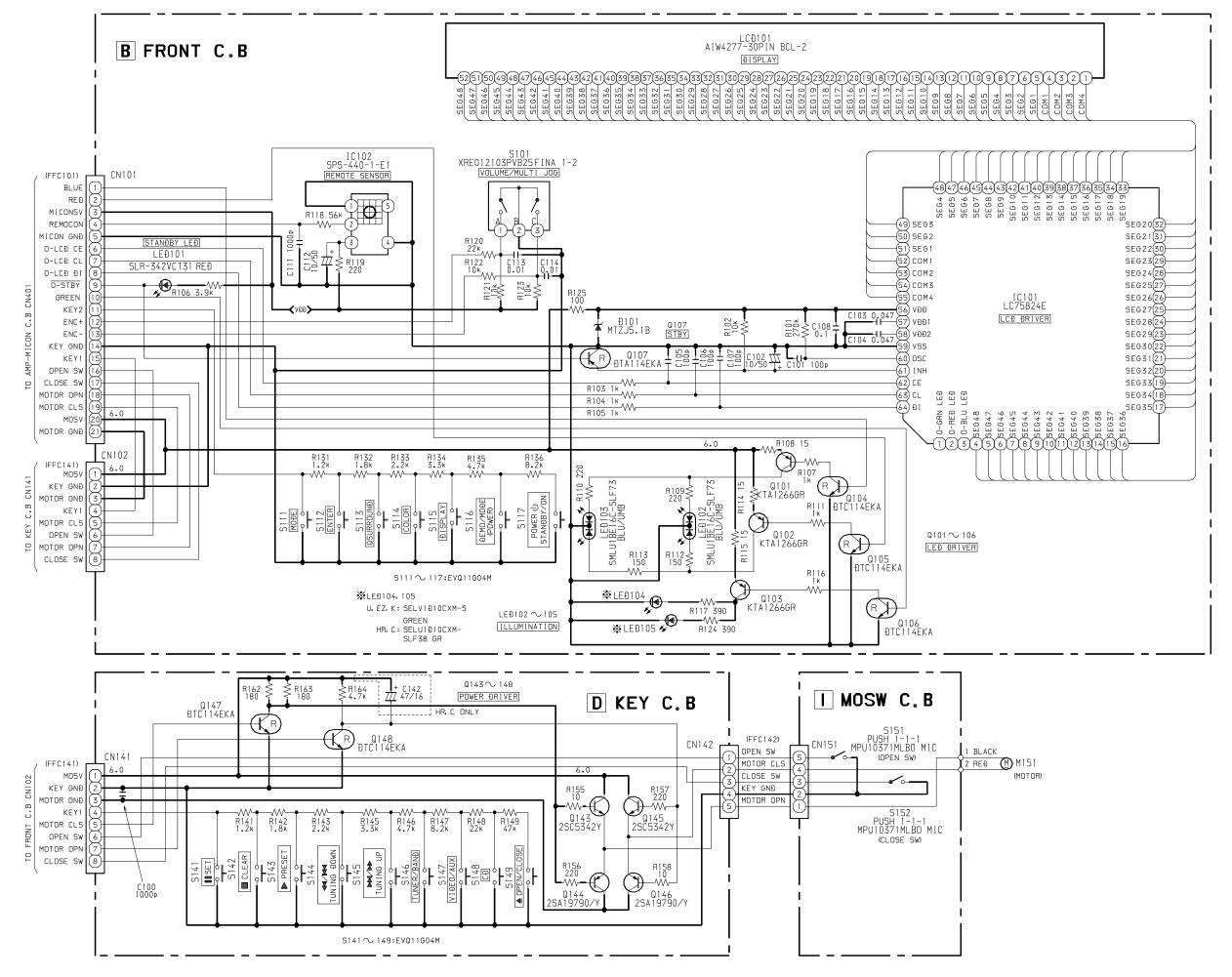
TO FRONT C.B CN101 (FFC101) ↑ A AMP-MICON C.B <c> TO PT C.B CNA001 TO TUNER C.B CN601 TO CD C.B CN4 2,2 W

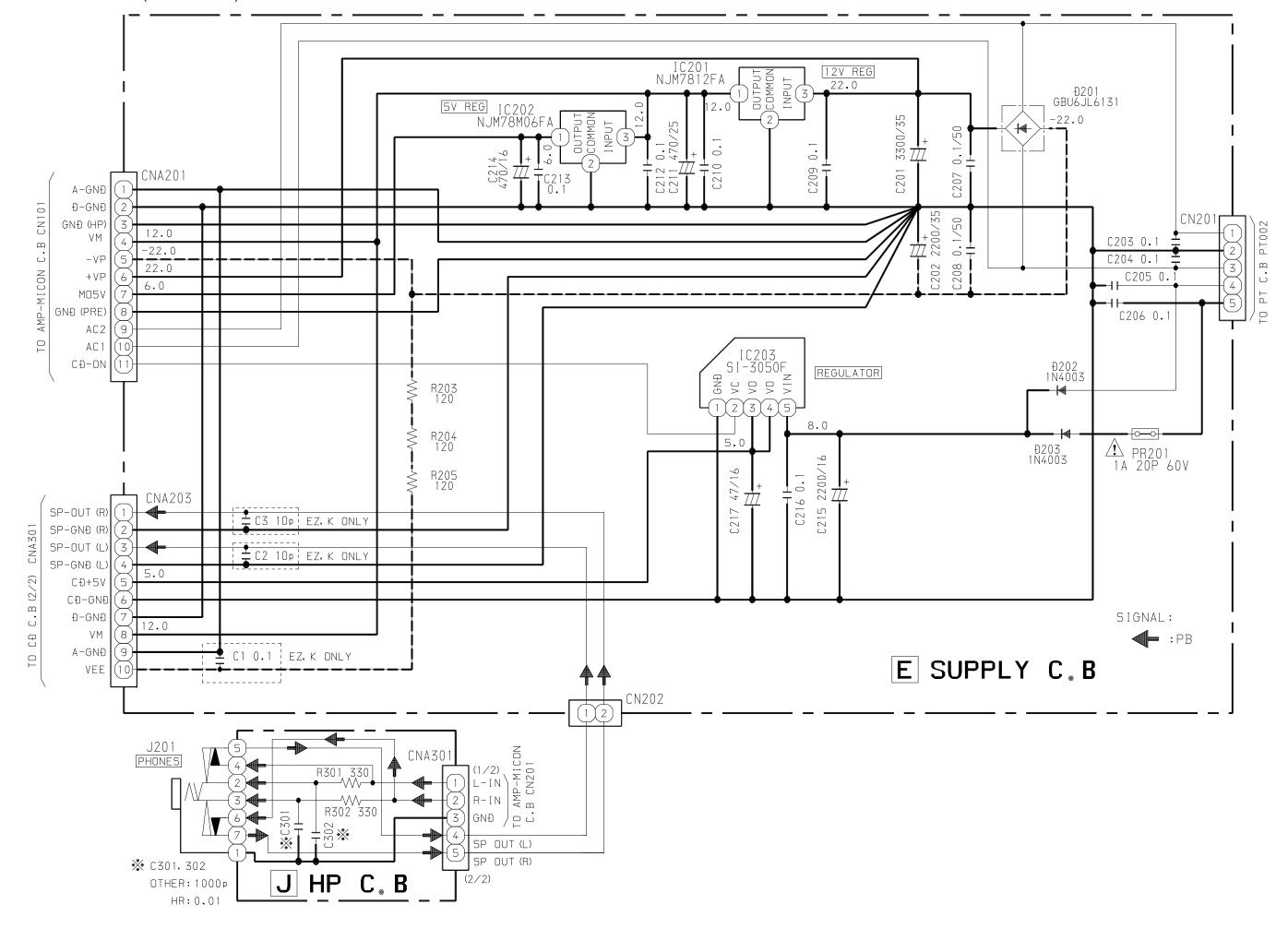
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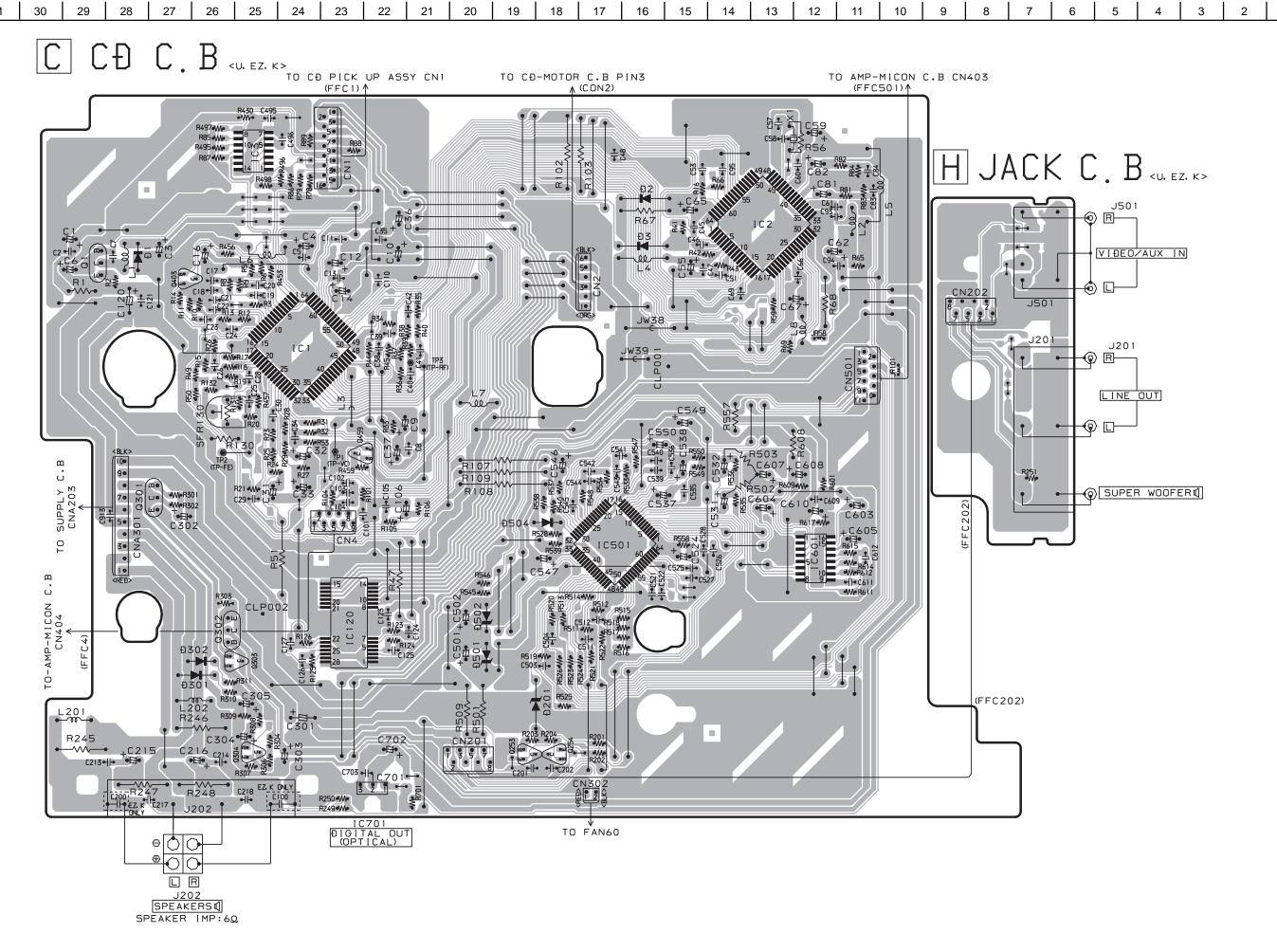


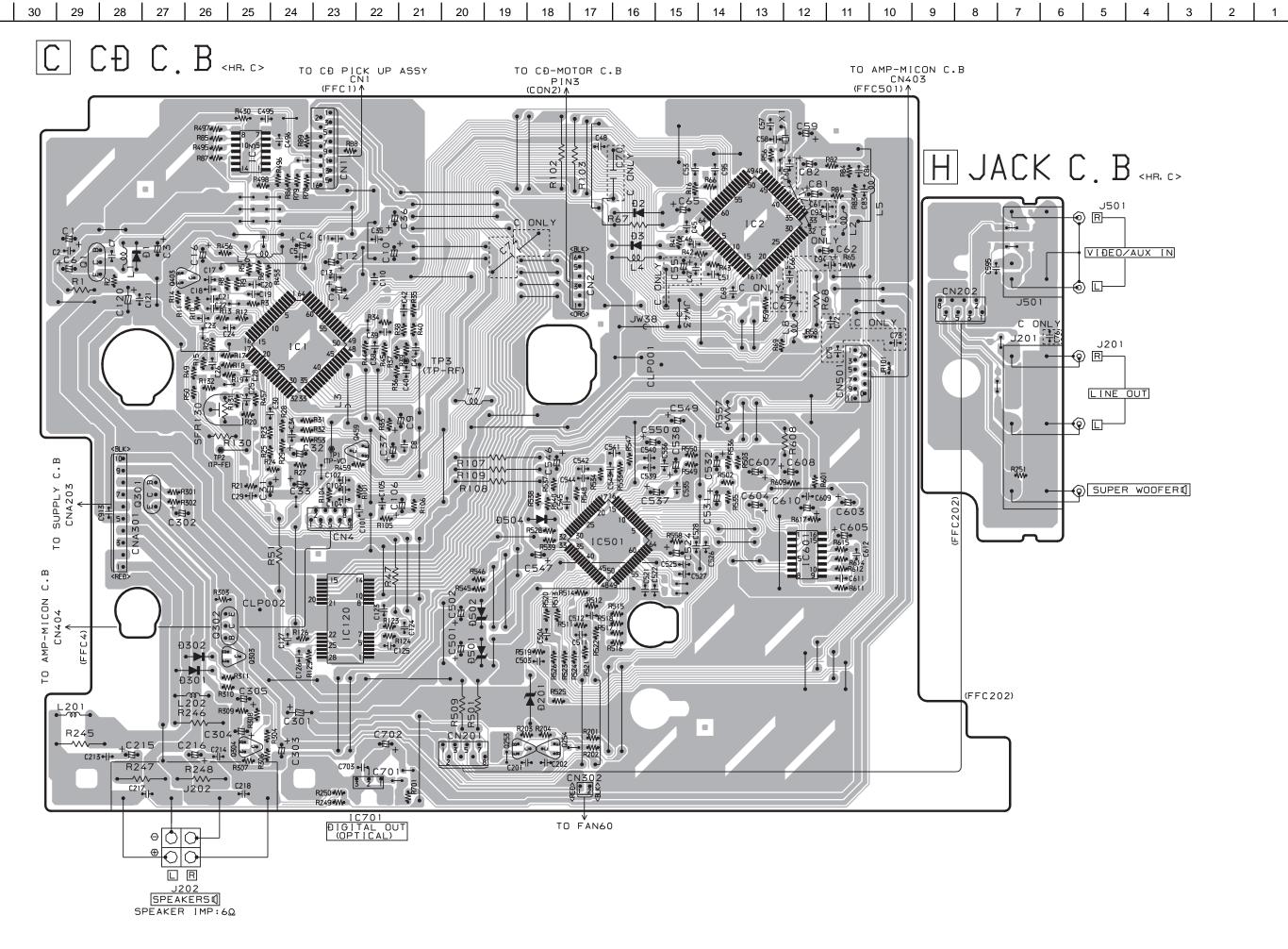




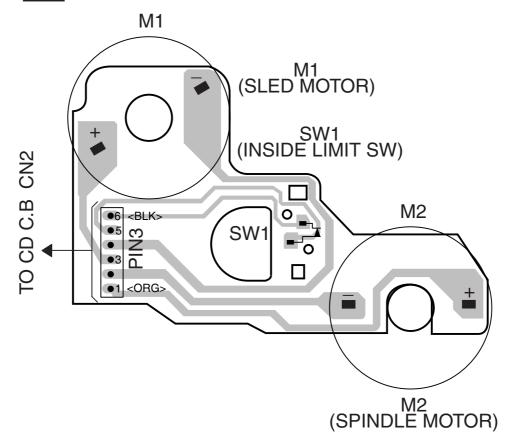








K CD-MOTOR C.B



В

С

D

Ε

G

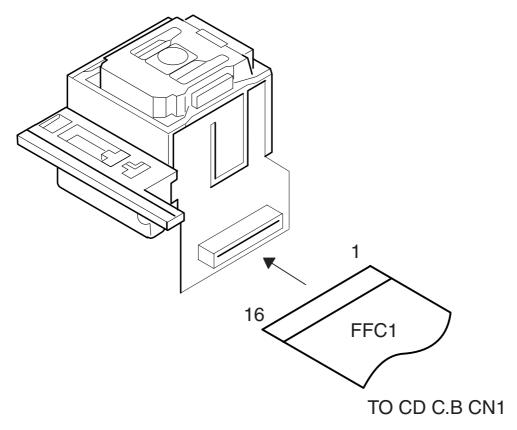
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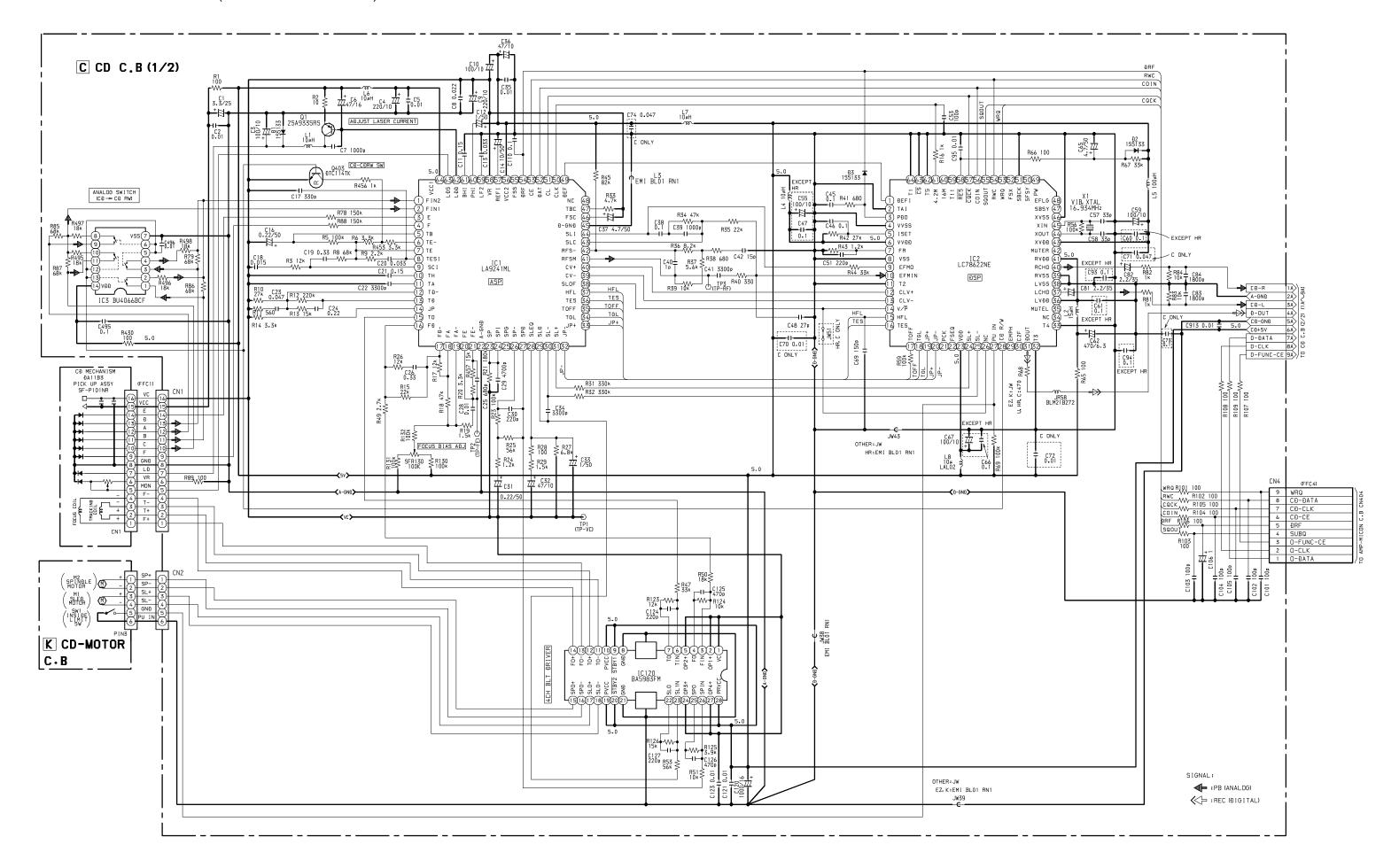
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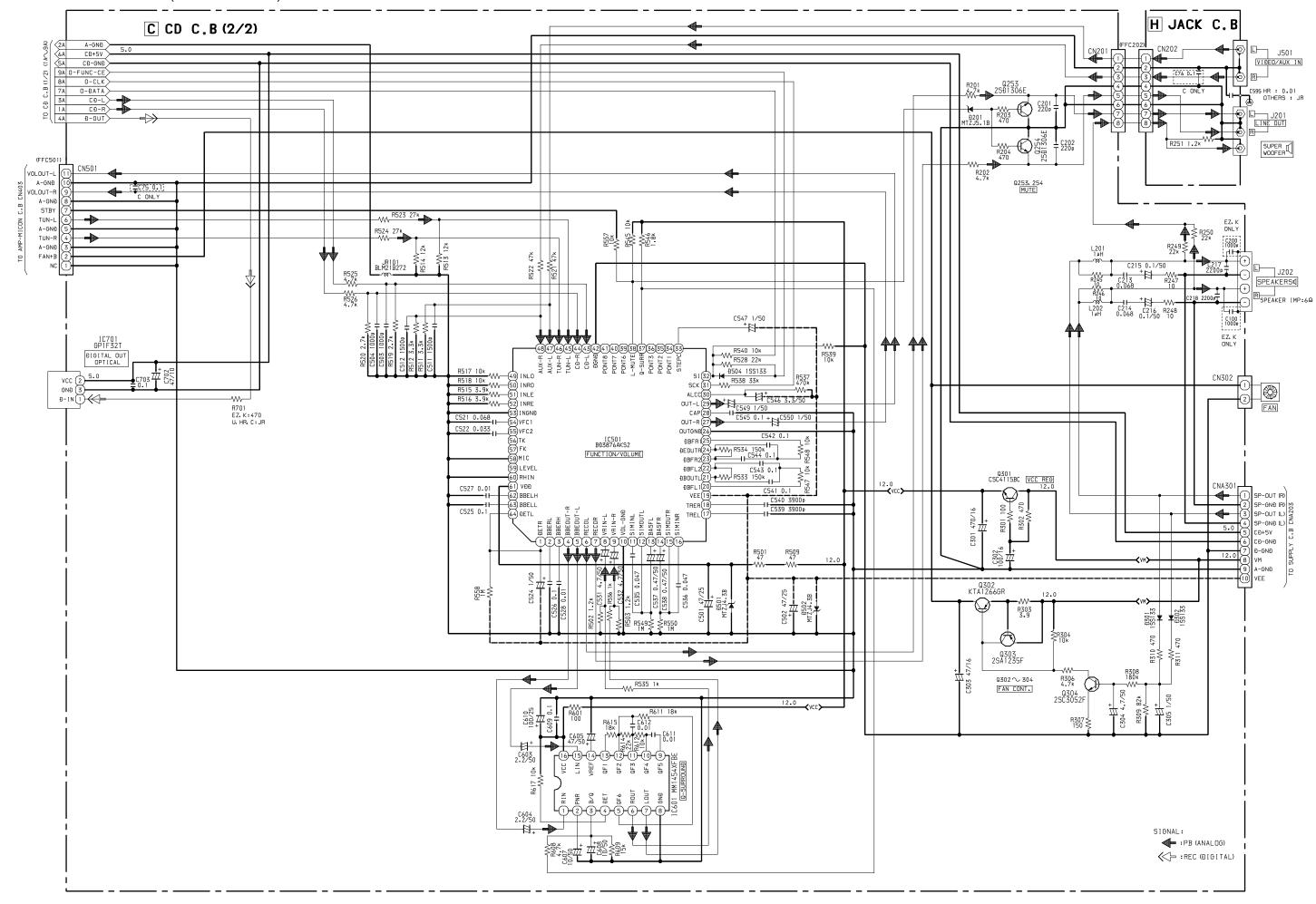
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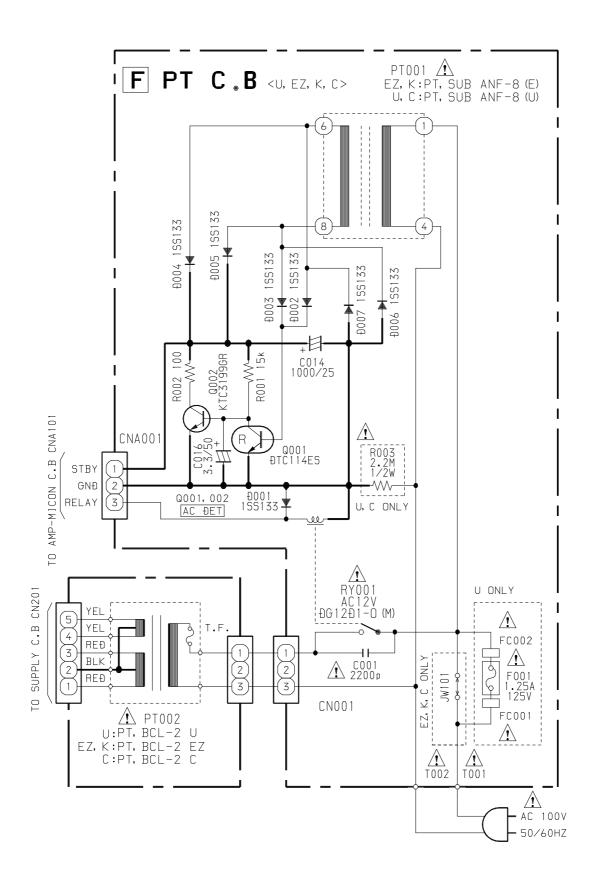
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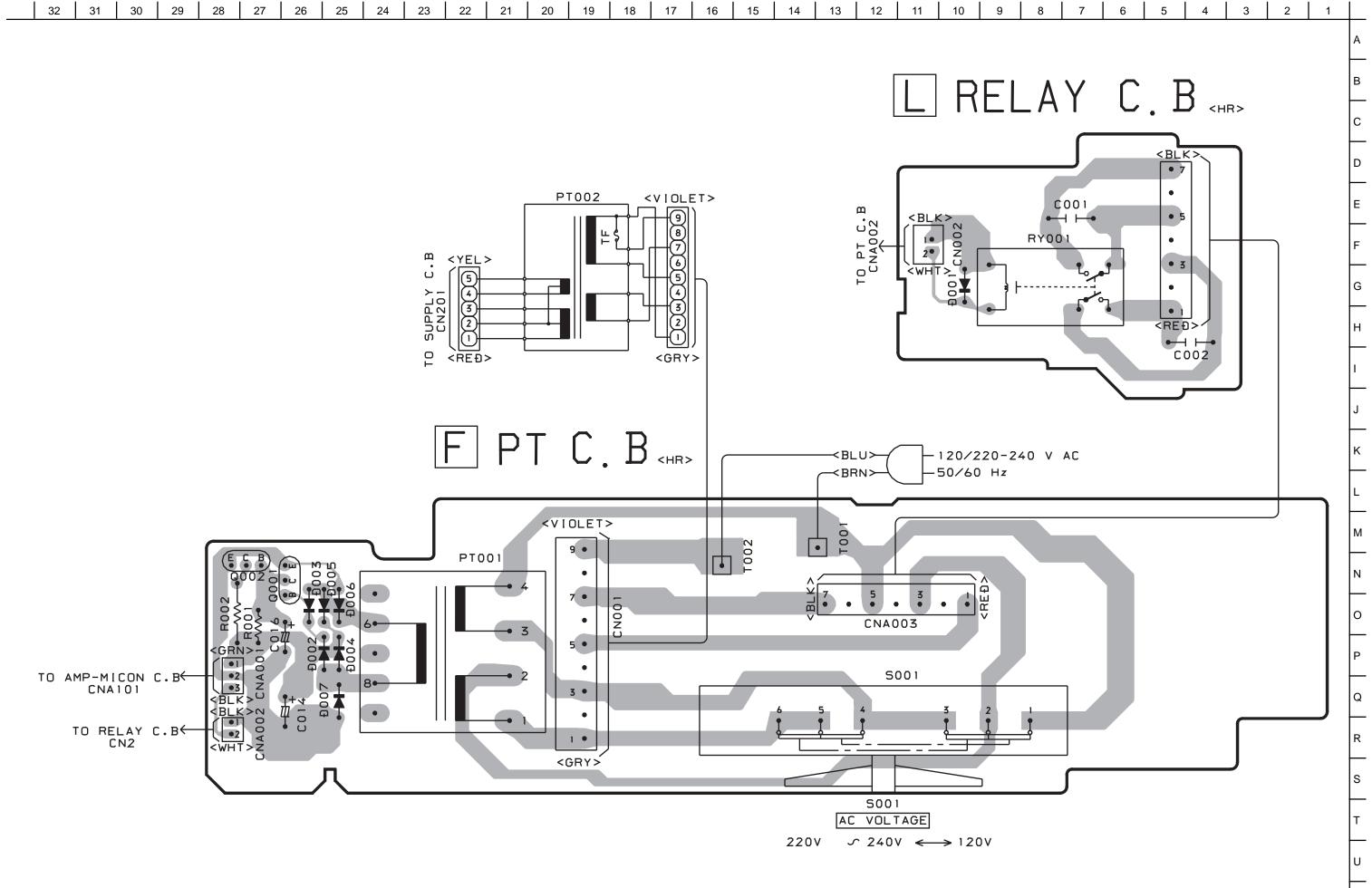
PICK UP ASSY SF-P101NR

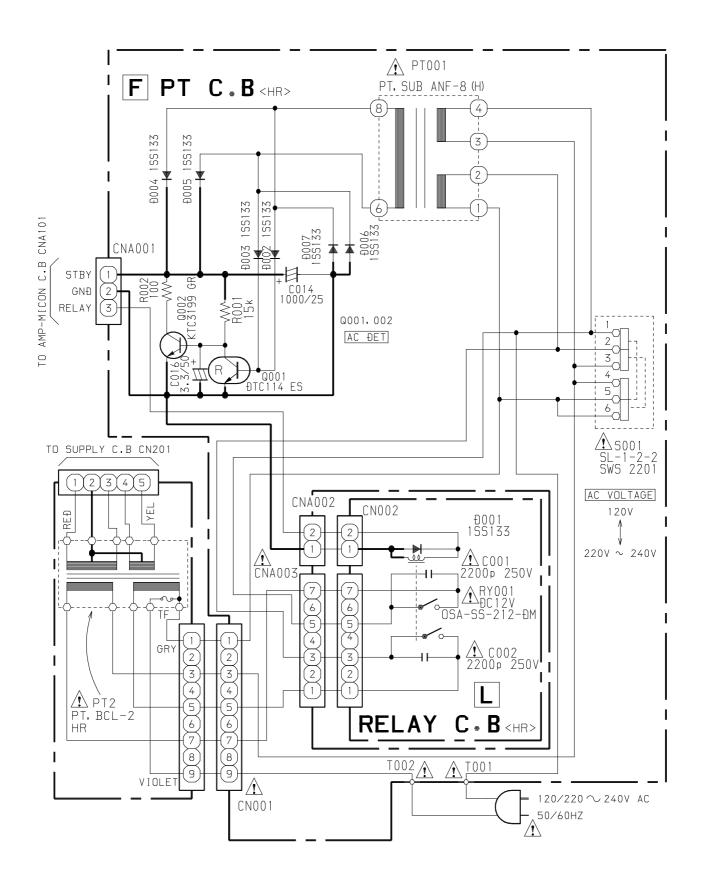






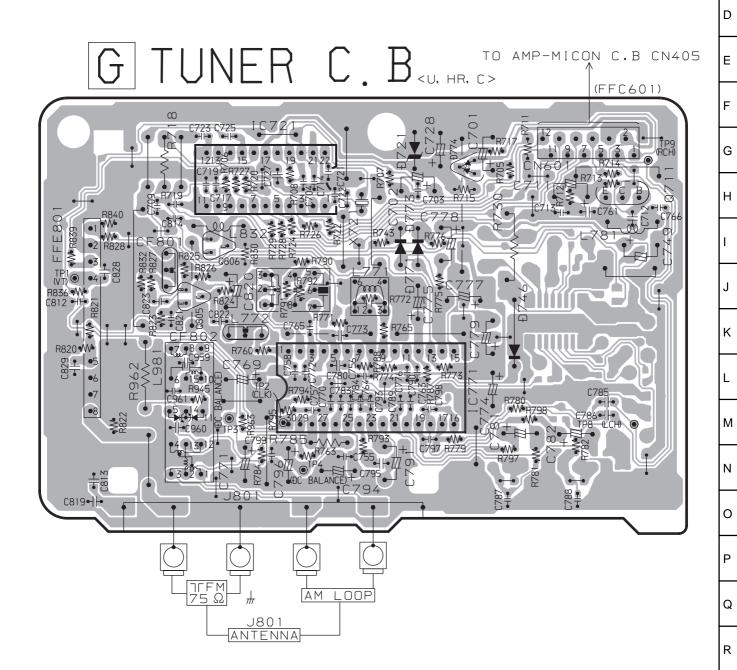


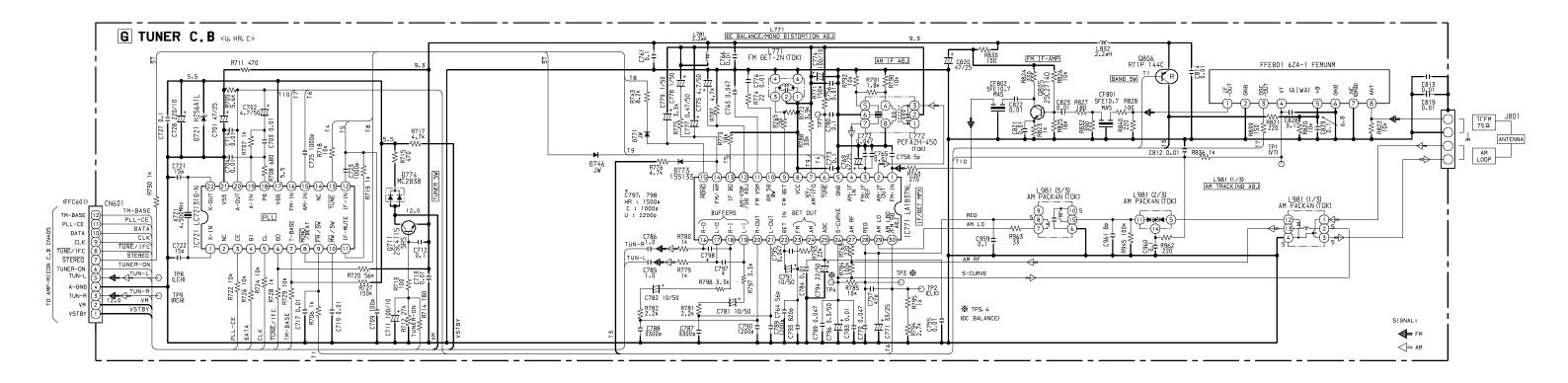


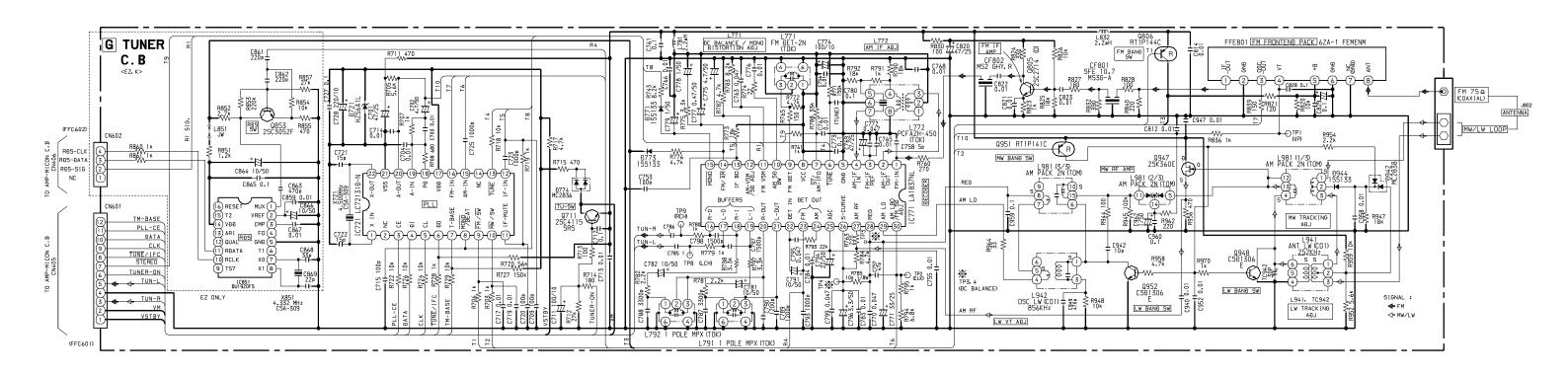


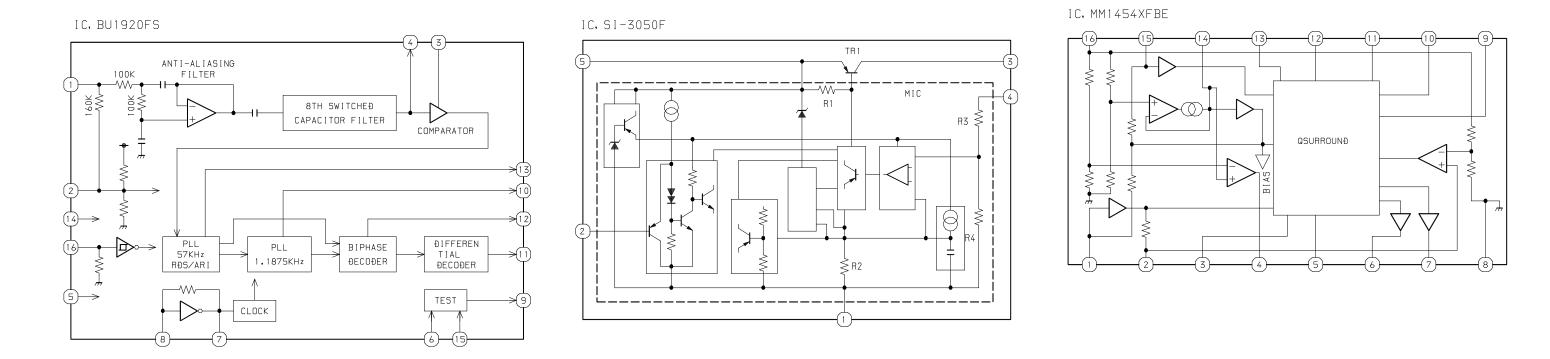
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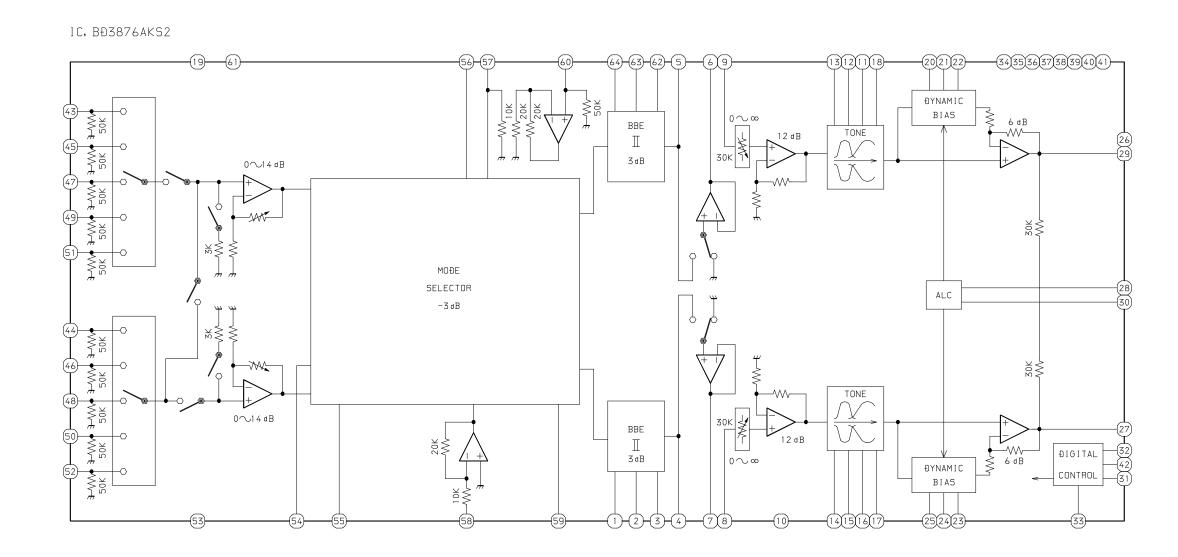
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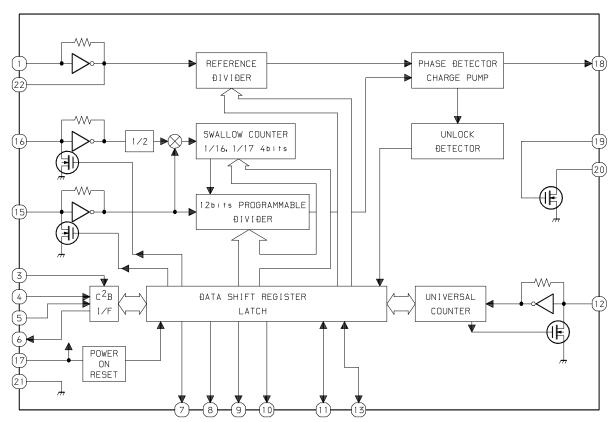


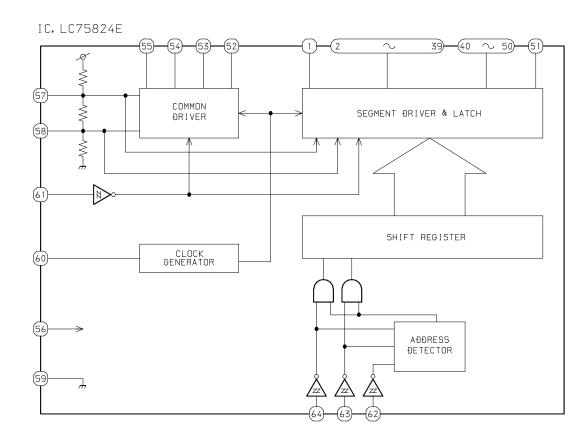




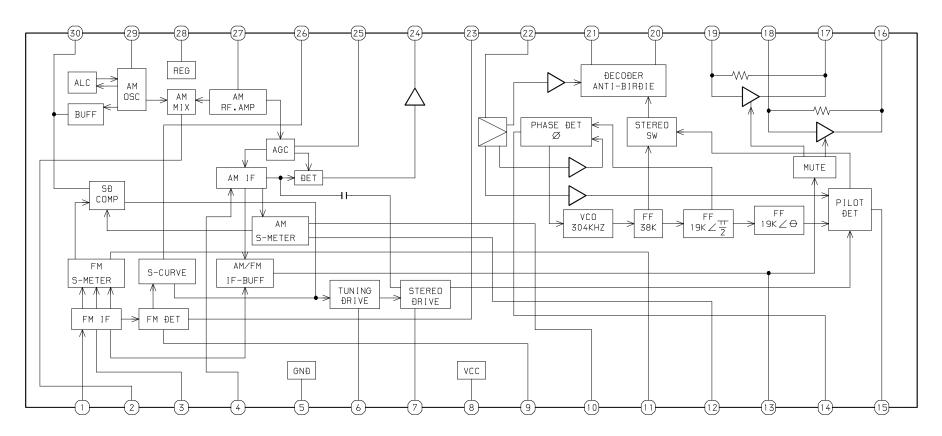


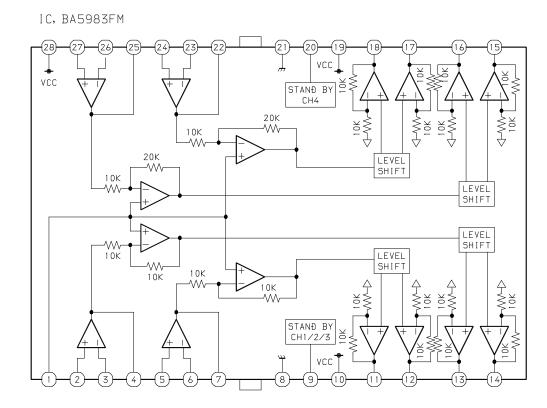
IC, LC72131Ð-N



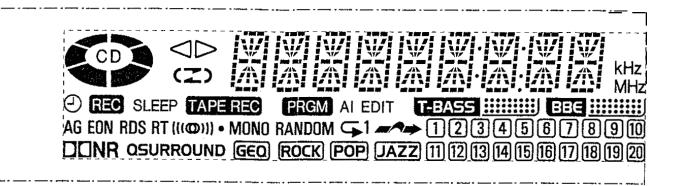


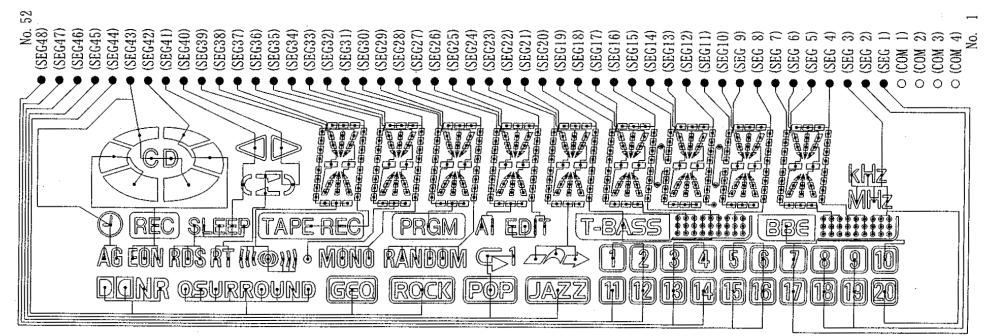
IC, LA1837NL



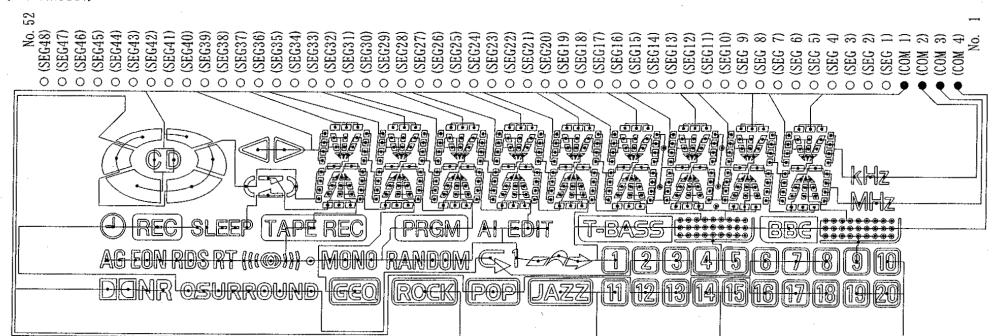


PATTERN FIGURE





<COMMON>



IC DESCRIPTION

IC, LC78622NE

Pin No.	Pin Name	I/O	Description
1	DEFI	I	Defect detection signal (DEF) input. ("L" is applied when not used.)
2	TAI	I	For PLL/Test input. (Connected to 0V)
3	PDO	О	Phase comparison output to control the external VCO.
4	VVSS	_	Ground of the built-in VCO. Normally 0V.
5	ISET	I	For the connection of a resistor which adjusts the PDO output current.
6	VVDD	_	Power supply of the built-in VCO.
7	FR	I	Adjusts the VCO frequency range.
8	VSS	_	Ground of digital circuits. Normally 0V.
9	EFMO	О	For slice level control/EFM signal output.
10	EFMIN	I	EFM signal input.
11	T2	I	Test input. A pull-down resistor is incorporated. (Connected to 0V)
12	CLV+	- О	Disc motor control tri-state output.
13	CLV-		
14	V/P		Output to monitor the automatic switching between the rough servo control and phase servo
		0	control. "H": Rough servo, "L": Phase servo.
15	HFL	I	Track detection signal input. Schmitt trigger input.
16	TES	I	Track error signal input. Schmitt trigger input.
17	TOFF	О	Tracking off output.
18	TGL	О	Tracking gain switching output. "L" raises the gain.
19	JP+		Track jump control tri-state output.
20	JP-	O	
21	PCK		Monitors the clock signal for EFM data playback. 4.3218MHz when the phase is locked.
		0	(Not used)
22	FSEQ		Sync signal detection output. Goes "H" when the sync signal detected from the EFM
		О	signal matches the sync signal generated internally. (Not used)
23	VDD	_	Power supply of digital circuits.
24	SL+	О	Controlled by serial data command issued by the microprocessor.
25	SL–	О	Controlled by serial data command issued by the microprocessor.
26	NC	_	Not connected.
27	PU IN	I	CD pickup inside limit switch.
28	CD R/W	О	CD-RW disc select control.
29	ЕМРН	0	Deemphasis monitor. "H": when playing a deemphasis disc. (Not used)
30	C2F	0	C2 flag output. (Not used)
31	DOUT	О	Output a digital OUT signal. (EIAJ format) (Not used)
32	Т3	т	Test input. (Connected to 0V)
33	T4	I	
34	NC	_	Not connected.
35	MUTEL	О	Lch 1-bit DAC/Lch muting output. (Not used)
36	LVDD	_	Lch power supply.
37	LCHO	0	Lch output.
38	LVSS	_	Lch ground. Normally 0V.

Pin No.	Pin Name	I/O	Description
39	RVSS	_	Rch 1-bit DAC/Rch ground. Normally 0V.
40	RCHO	О	Rch output.
41	RVDD	_	Rch power supply.
42	MUTER	О	Rch muting output. (Not used)
43	XVDD	_	Power supply of crystal oscillator.
44	XOUT	О	For the connection of a 16.93MHz crystal oscillator.
45	XIN	I	For the connection of a 10.95MHz crystal oscillator.
46	XVSS	_	Ground of crystal oscillator. Normally 0V.
47	SBSY	О	Subcode block sync signal output. (Not used)
48	EFLG	О	C1, C2, single, duplex correction monitor. (Not used)
49	PW	О	Output of subcodes P, Q, R, S, T, U and W. (Not used)
50	SFSY	О	Subcode frame sync signal output. Falls when the subcode is set to the standby state. (No used)
£1	SDCV	т.	Subcode read-out clock input. Schmitt trigger input. ("L" is applied when not used.)
51	SBCK	I	(Connected to 0V)
52	FSX	О	7.35kHz sync signal output obtained by dividing the oscillator frequency. (Not used)
53	WRQ	О	Subcode Q standby output.
54	RWC	I	Read/write control input. Schmitt trigger input.
55	SQOUT	О	Subcode Q output.
56	COIN	I	Command input from the microprocessor.
57	CQCK		Command input retrieval clock or subcode retrieval clock input from SQOUT. Schmitt trigger
57	CQCK	I	input.
58	RES	I	LC78622NE reset input.
59	T11	О	Test output. Set to open (normally "L" output.) (Not used)
60	16M	0	16.9344MHz output. (Not used)
61	4.2M	0	4.236MHz output.
62	T5	I	Test input. A pull-down resistor is incorporated. (Connected to 0V)
63	CS	I	Chip select input. (Connected to 0V)
64	T1	I	Test input with no pull-down resistor. (Connected to 0V)

IC, LA9241ML

Pin No.	Pin Name	I/O	Description	
1	FIN2	I	For the connection of the pickup photodiode. Addition to the FIN1 pin creates an RF	
1	11112	1	signal and subtraction from it create an EF signal.	
2	FIN1	I	For the connection of the pickup photodiode.	
3	Е	I	For the connection of the pickup photodiode. Subtraction from the F pin creates a TE	
3	L	1	signal.	
4	F	I	For the connection of the pickup photodiode.	
5	ТВ	I	Inputs the DC components in the TE signal.	
6	TE-	I	For the connection of a resistor which sets the gain of the TE signal between this pin	
0	TE-	1	and the TE pin.	
7	TE	О	TE signal output.	
8	TESI	I	TES (track error sense) comparator input. The TE signal is passed through a BPF.	
9	SCI	I	Shock detection input.	
10	TH	I	Sets the time constant for the tracking gain.	
11	TA	0	TA amp output.	
12	TD-	I	Composes the tracking phase compensation constant between the TD and VR pins.	
13	TD	О	Sets the tracking phase compensation.	
14	JP	I	Sets the amplitude of the tracking jump signal (kick pulses).	
15	ТО	О	Tracking control signal output.	
16	FD	О	Focusing control signal output.	
17	FD-	I	Composes the focusing phase compensation constant between the FD and FA pins.	
18	FA	О	Composes the focusing phase compensation constant between the FD- and FA- pins.	
19	FA-	I	Composes the focusing phase compensation constant between the FA and FE pins.	
20	FE	О	FE signal output.	
21	EE	T .	For the connection of a resistor whichs sets the gain of the FE signal between this pin	
21	FE–	I	and the TE pin.	
22	A-GND	_	Ground of analog signals.	
23	SP	О	Single-ended output of the signals input to the CV+ and CV- pins.	
24	SPI	I	Spindle amp input.	
25	SPG	I	For the connection of a resistor which sets the gain in the spindle 12cm mode. (Not used)	
26	SP-	I	For the connection of the spindle phase compensation constant with the SPD pin.	
27	SPD	О	Spindle control signal output.	
28	SLEQ	I	For the connection of sled phase compensation constant.	
29	SLD	0	Sled control signal output.	
30	SL–	т	Sled food signal input from the microprocess.	
31	SL+		Sled feed signal input from the microprocessor.	
32	JP-	т	Treaking signal input from the DSD	
33	JP+		Tracking signal input from the DSP.	
34	TGL	I	Tracking gain control signal input from the DSP. Low gain when TGL is "H".	
35	TOFF	I	Tracking off control signal input from the DSP. Off when TOFF is "H".	

Pin No.	Pin Name	I/O	Description	
37	HFL	0	The HFL (high frequency level) signal is used to judge whether the main beam is positioned on	
31			the pit or on the mirror.	
38	SLOF	I	Sled servo off control input.	
39	CV-		CI V annua si anal imput faran the DCD	
40	CV+	I	CLV error signal input from the DSP.	
41	RFSM	О	RF output.	
42	RFS-	О	Sets the RF gain and the EFM signal's 3T compensation constant together with the RFSM pin.	
43	SLC	О	The SLC (slice level control) signal is output to control the DSP's data slice level of the RF waveform.	
44	SLI	I	Input to control the DSP's data slice level.	
45	D-GND	_	Ground of digital signals.	
46	FSC	О	Output for the focus search smoothing capacitor.	
47	TBC	I	The TBC (tracking balance control) signal sets the EF balance variation range.	
48	NC	_	Not connected.	
49	DEF	О	Disc defect detection output.	
50	CLK	I	Reference clock input. 4.23MHz is input from the DSP.	
51	CL	I	Microprocessor command clock input.	
52	DAT	I	Microprocessor command data input.	
53	CE	I	Microprocessor chip enable input.	
54	DRF	О	DRF (detect RF) is an output to detect the RF level.	
55	Egg		The FSS (focus search select) signal switches the focus search modes (+/-search / +search with	
55	FSS	I	respect to the reference voltage). (Not used)	
56	VCC2	_	VCC of servo and digital circuits.	
57	REFI	_	For the connection of bypass capacitor for the reference voltage.	
58	VR	О	Reference voltage output.	
59	LF2	_	Sets the time constant for disc defect detection.	
60	PH1	-	For the connection of a capacitor to hold the RF signal peak.	
61	BH1	_	For the connection of a capacitor to hold the RF signal bottom.	
62	LDD	О	APC circuit output.	
63	LDS	I	APC circuit input.	
64	VCC1	_	VCC of RF signal circuits.	

IC, LC876564V-5V69

Pin No.	Pin Name	I/O	Description			
1	O-CD CLK	0	CD IC control clock output.			
2	O-CD CE	О	CD IC control chip enable output.			
3	I-CD WRQ	I	Input standby for CD subcode Q output.			
4	I-CD DRF	I	Detect CD RF level.			
5	I-CD SUBQ	I	CD IC data input.			
6	O-CD ON	О	CD ON / OFF control output.			
7	O-MUTE	О	Audio mute ON / OFF control output.			
8	O-POWER	О	System power supply ON/ OFF output.			
9	O-TUNE ON	О	Tuner ON / OFF control output.			
10	O-CLK SHIFT	О	MICON clock shift output.			
11	RESET	I	Reset input.			
12	I-HOLD	I	Power failure detection input.			
13	I-LEVEL (NC)	I	Signal level input. (Not used)			
14	VSS1	-	GND.			
15	CF1	-	9.43MHz oscillator circuit.			
16	CF2	-	9.43MHz oscillator circuit.			
17	VDD1	-	Power supply input.			
18	O-AMP ON	О	AMP ON / OFF control output. (Not used)			
19	O-PLL CE	О	PLL IC chip enable output.			
20	I-TUNE/IFC	I	IF count serial data input.			
21	I-STEREO	I	Tuner stereo detect input.			
22	I-RDS DATA	I	RDS data input. <ez only=""></ez>			
23	I-TUNER	I	Tuner select input. (A /D)			
24	I-KEY1	I	Key input. (A /D)			
25	I-KEY2	I	Key input. (A /D)			
26	I-RDS CLK	I	RDS clock input. <ez only=""></ez>			
27	I-TU SIG	I	Tuner \overline{SD} detect input. <ez only=""></ez>			
28	I-TM BASE	I	Reference clock input for watch.			
29	I-REMOCON	I	System remote control signal input.			
30 ~ 45	NC	-	Not connected.			
46	VDD3	-	Power supply input.			
47 ~ 50	NC	-	Not connected.			
51	VP	-	GND.			
52 ~ 71	NC	-	Not connected.			
72	VDD4	-	Power supply input.			
73 ~ 76	NC	-	Not connected.			
77	O-BLU LED	О	Blue LED control output.			
78	O-RED LED	О	Red LED control output.			
79	O-GRN LED	О	Green LED control output.			
80	NC	-	Not connected.			
	OSC	_	OSC test point.			
81			1			

Pin No.	Pin Name	I/O	Description	
85	O-DATA	О	PLL, function IC control data output.	
86	O-CLK	О	PLL, function IC control clock output.	
87	O-FUNC CE	О	Function IC control chip enable output.	
88	O-STANDBY	О	Standby LED ON / OFF control output.	
89	VSS2	-	GND.	
90	VDD2	-	Power supply input.	
91	I-JOG1	I	Jog signal input.	
92	I-JOG2	I	Jog signal input.	
93	I-CD OPEN	I	CD open switch signal input.	
94	I-CD CLOSE	I	CD close switch signal input.	
95	O-CD OPEN	О	CD cover open signal output.	
96	O-CD CLOSE	О	CD cover close signal output.	
97	O-CD DATA	О	CD IC control data output.	
98	O-LCD DATA	О	LCD control data output.	
99	O-LCD CE	О	LCD control chip enable output.	
100	O-LCD CLK	О	LCD control clock output.	

ADJUSTMENT <TUNER / CD / AMP - MICON>

< TUNER SECTION > <U, C>

1. Clock Frequency Check

Settings: • Test point: TP2(CLK)

Method: Set to AM 1710kHz and check that the test point is

2160kHz ± 45 Hz.

2. AM VT Check

Settings: • Test point: TP1(VT)

Method: Set to AM 1710kHz and check that the test point is less than 8.5V. Then set to AM 530kHz and check that the

test point is more than 0.6V.

3. AM Tracking Adjustment

Settings: • Test point: TP8(Lch), TP9(Rch)

• Adjustment location : L981(1/3)

Method : Set to AM 1000kHz and adjust L981(1/3) so that the

test point becomes maximum.

4. AM IF Adjustment

Settings: • Test point: TP8(Lch), TP9(Rch)

• Adjustment location:

5. FM VT Check

Settings: • Test point: TP1(VT)

Method: Set to FM 108.0MHz and check that the test point

is less than 8.0V. Then set to FM 87.5MHz and check

that the test point is more than 0.5V.

6. FM Tracking Check

Settings: • Test point: TP8(Lch), TP9(Rch)

Method: Set to FM 98.0MHz and check that the test point is less

than 9dBµV.

7. DC Balance / Mono Distortion Adjustment

Settings: • Test point: TP3, TP4 (DC Balance)

TP8(Lch), TP9(Rch) (Distortion)

• Adjustment location : L771

• Input level : 60dBµV

Method : Set to FM 98.0MHz and adjust L771 so that the voltage $\,$

between TP3 and TP4 becomes $0V \pm 0.04V$. Then check

that the distortion is less than 1.3%.

8. Output Level Check

<AM>

Settings: • Test point: TP8(Lch), TP9(Rch)

• Input level : $74dB\mu V$

Method: Set to AM 1000kHz and check that the test point is

 $175 \text{mV} \pm 3 \text{dB}$.

<FM>

Settings: • Test point: TP8(Lch), TP9(Rch)

• Input level : $60dB\mu V$

Method: Set to FM 98.0MHz and check that the test point is

 $700\text{mV} \pm 3\text{dB}$.

9. FM Seperation Check

Settings: • Test point: TP8(Lch), TP9(Rch)

• Input level : 60dBμV

Method: Set to FM 98.0MHz and check that the test point is

more than 25dB.

< TUNER SECTION > <EZ. K>

1. Clock Frequency Check

Settings: • Test point: TP2(CLK)

Method : Set to MW 1602kHz and check that the test point is $2052kHz\pm45Hz$.

2. MW VT Check

Settings: • Test point: TP1(VT)

Method: Set to MW 1602kHz and check that the test point is less than 8.0V. Then set to MW 531kHz and check that the test point is more than 0.6V.

3. MW Tracking Adjustment

Settings: • Test point: TP8(Lch), TP9(Rch)

• Adjustment location: L981(1/3)

Method: Set to MW 999kHz and adjust L981(1/3) so that the test point becomes maximum.

4. LW VT Adjustment

Settings: • Test point: TP1(VT)

• Adjustment location: L942

Method : Set to LW 144kHz and adjust L942 so that the test point becomes $1.3V\pm0.05V$. Then set to LW 290kHz and check that the test point is less than 8.0V.

5. LW Tracking Adjustment

Settings: • Test point: TP8(Lch), TP9(Rch)

• Adjustment location :

Method: Set up TC942 to center before adjustment.

Adjust L941 so that the level at 144kHz becomes maximum. Then adjust TC942 so that the level at 290kHz becomes maximum.

6. AM IF Adjustment

Settings: • Test point: TP8(Lch), TP9(Rch)

• Adjustment location :

7. FM VT Check

Settings : • Test point : TP1(VT)

Method: Set to FM 108.0MHz and check that the test point is less than 8.0V. Then set to FM 87.5MHz and check that the test point is more than 0.5V.

8. FM Tracking Check

Settings: • Test point: TP8(Lch), TP9(Rch)

Method : Set to FM 98.0MHz and check that the test point is less than $9dB\mu V$.

9. DC Balance / Mono Distortion Adjustment

Settings: • Test point: TP3, TP4 (DC Balance)

TP8(Lch), TP9(Rch) (Distortion)

• Adjustment location: L771

• Input level : 60dBµV

Method : Set to FM 98.0MHz and adjust L771 so that the voltage between TP3 and TP4 becomes $0V \pm 0.04V$. Then check that the distortion is less than 1.3%.

10. Output Level Check

<AM>

Settings: • Test point: TP8(Lch), TP9(Rch)

• Input level: 74dBµV

Method : Set to AM 1000kHz and check that the test point is $175 mV \pm 3 dB$.

<FM>

Settings: • Test point: TP8(Lch), TP9(Rch)

• Input level : 60dBµV

Method : Set to FM 98.0MHz and check that the test point is $700 mV \pm 3 dB$.

11. FM Seperation Check

Settings: • Test point: TP8(Lch), TP9(Rch)

• Input level : $60dB\mu V$

Method: Set to FM 98.0MHz and check that the test point is

more than 25dB.

< TUNER SECTION > <HR>

1. Clock Frequency Check

Settings: • Test point: TP2(CLK)

Method: Set to AM 1602kHz and check that the test point is

2052kHz ± 45 Hz.

2. AM VT Check

Settings: • Test point: TP1(VT)

Method: Set to AM 1602kHz and check that the test point is less than 8.0V. Then set to AM 531kHz and check that the

than 6.0 V. Then set to AW 551kHz and check that th

test point is more than 0.6V.

3. AM Tracking Adjustment

Settings: • Test point: TP8(Lch), TP9(Rch)

• Adjustment location: L981(1/3)

Method: Set to AM 999kHz and adjust L981(1/3) so that the

test point becomes maximum.

4. AM IF Adjustment

Settings: • Test point: TP8(Lch), TP9(Rch)

• Adjustment location:

5. FM VT Check

Settings: • Test point: TP1(VT)

Method: Set to FM 108.0MHz and check that the test point

is less than 8.0V. Then set to FM 87.5MHz and check

that the test point is more than 0.5V.

6. FM Tracking Check

Settings: • Test point: TP8(Lch), TP9(Rch)

Method: Set to FM 98.0MHz and check that the test point is less

than 9dBµV.

7. DC Balance / Mono Distortion Adjustment

Settings: • Test point: TP3, TP4 (DC Balance)

TP8(Lch), TP9(Rch) (Distortion)

• Adjustment location: L771

• Input level : 60dBµV

Method : Set to FM 98.0MHz and adjust L771 so that the voltage $\,$

between TP3 and TP4 becomes $0V \pm 0.04V$. Then check

that the distortion is less than 1.3%.

8. Output Level Check

<AM>

Settings: • Test point: TP8(Lch), TP9(Rch)

• Input level : $74dB\mu V$

Method: Set to AM 1000kHz and check that the test point is

 $175 \text{mV} \pm 3 \text{dB}$.

<FM>

Settings: • Test point: TP8(Lch), TP9(Rch)

• Input level : $60dB\mu V$

Method: Set to FM 98.0MHz and check that the test point is

 $700\text{mV} \pm 3\text{dB}$.

9. FM Seperation Check

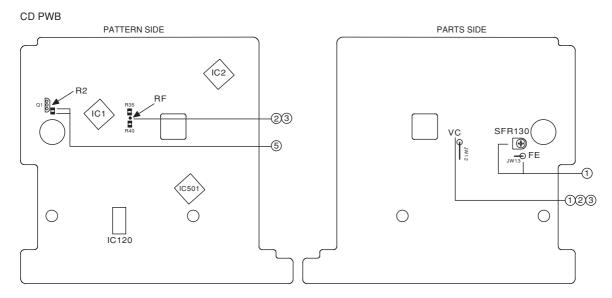
Settings: • Test point: TP8(Lch), TP9(Rch)

• Input level : 60dBµV

Method: Set to FM 98.0MHz and check that the test point is

more than 25dB.

< CD SECTION >



CD Adjustment Method

- Perform the adjustments after the machine enters the test mode.
- Place the CD mechanism on level ground.
- Equipment and tools required

Measuring equipment: Oscilloscope (Use the probe of 10:1)

Digital Multimeter (Use it in the DC Volt range)

Jitter meter (Kikusui 6235)

Test Disc: TCD-782

ATD-001

1. Focus Bias Adjustment

- 1) Connect a digital multimeter to the test point (FE), (VC).
- 2) Play back the 2nd track of TCD-782.
- 3) Adjust SFR130 until the digital multimeter indicates 0 ± 10 mV.

2. RF Waveform Check

- 1) Connect an oscilloscope to test point (RF), (VC).
- 2) Play back the 2nd track of TCD-782.
- 3) Check that the RF waveform has the maximum amplitude and the center of the wedge waveform has the clear blank.

3. Jitter Check

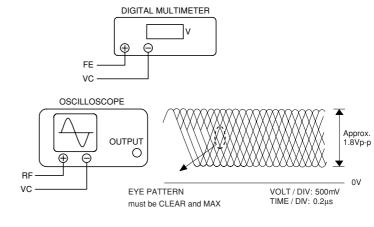
- While an oscilloscope is kept connected in the same test point as in step 2. RF Waveform Check, connect the output terminal of an oscilloscope to the input terminal of the jitter meter.
- Set the VOLT range selector of an oscilloscope to 500 mV range or lower.
- 3) Play back the 2nd track of TCD-782.
- 4) Check that the jitter meter indicates 28.0 ns or less.

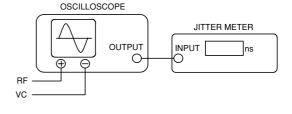
4. Play Ability Check

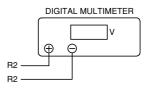
1) Play back the 3rd, 8th, and 13th track of ATD-001. Check that the noise does not occur and sound skipping does not occur.

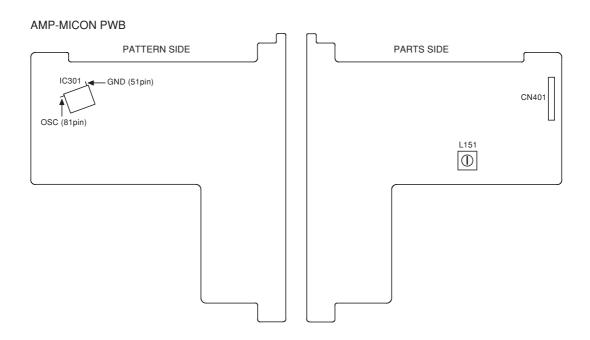
5. Laser Current Check

- *Do not perform this measurement unless the laser is suspected to be defective.
- 1) Connect a digital multimeter across the resistor R2 (10 Ω).
- 2) Play back the TCD-782 and check the DC voltage value on the digital multimeter.
- 3) Calculate the laser current (Iop) by dividing the DC voltage across R2 by the resistor value (R2 = $10~\Omega$). Check that the laser current (Iop) is 80~mA or less.









1. Clock Adjustment

- 1) Connect an oscilloscope to test point OSC (IC301 81 pin) and GND (IC301 51 pin).
- 2) Insert the AC plug while pressing POWER and TUNER / BAND buttons.
 3) Adjust L151 until the oscilloscope indicates 97.250 ± 0.050Hz (10.278 ~ 10.288ms)

CD TEST MODE

1. How to Start the CD Test Mode

While pressing the CD FUNCTION button, insert the AC plug to the power outlet. When the test mode started, all lights on the display are lit.

2. How to Exit the CD Test Mode

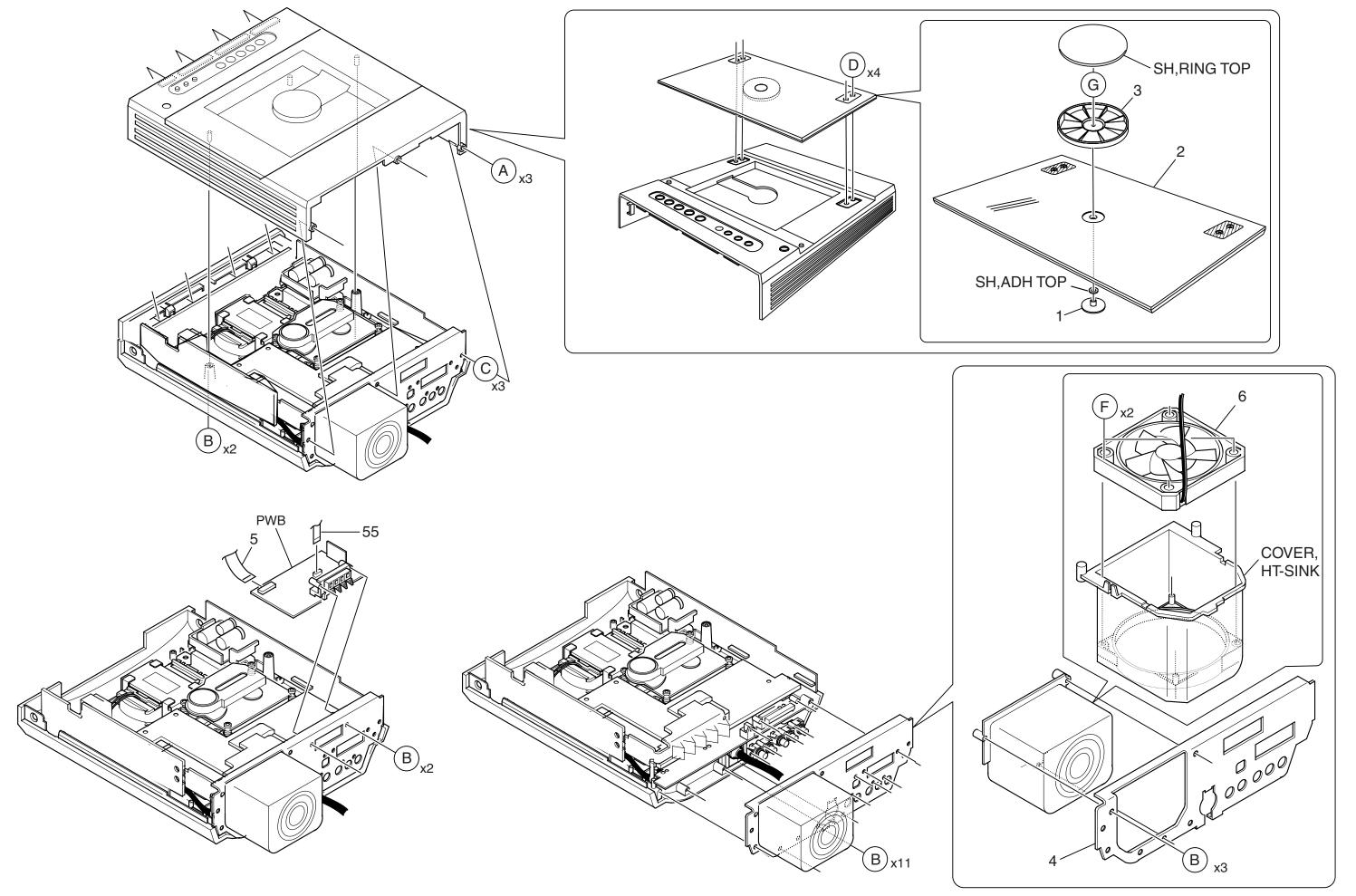
Press the POWER button or press the other FUNCTION buttons or disconnect the AC plug.

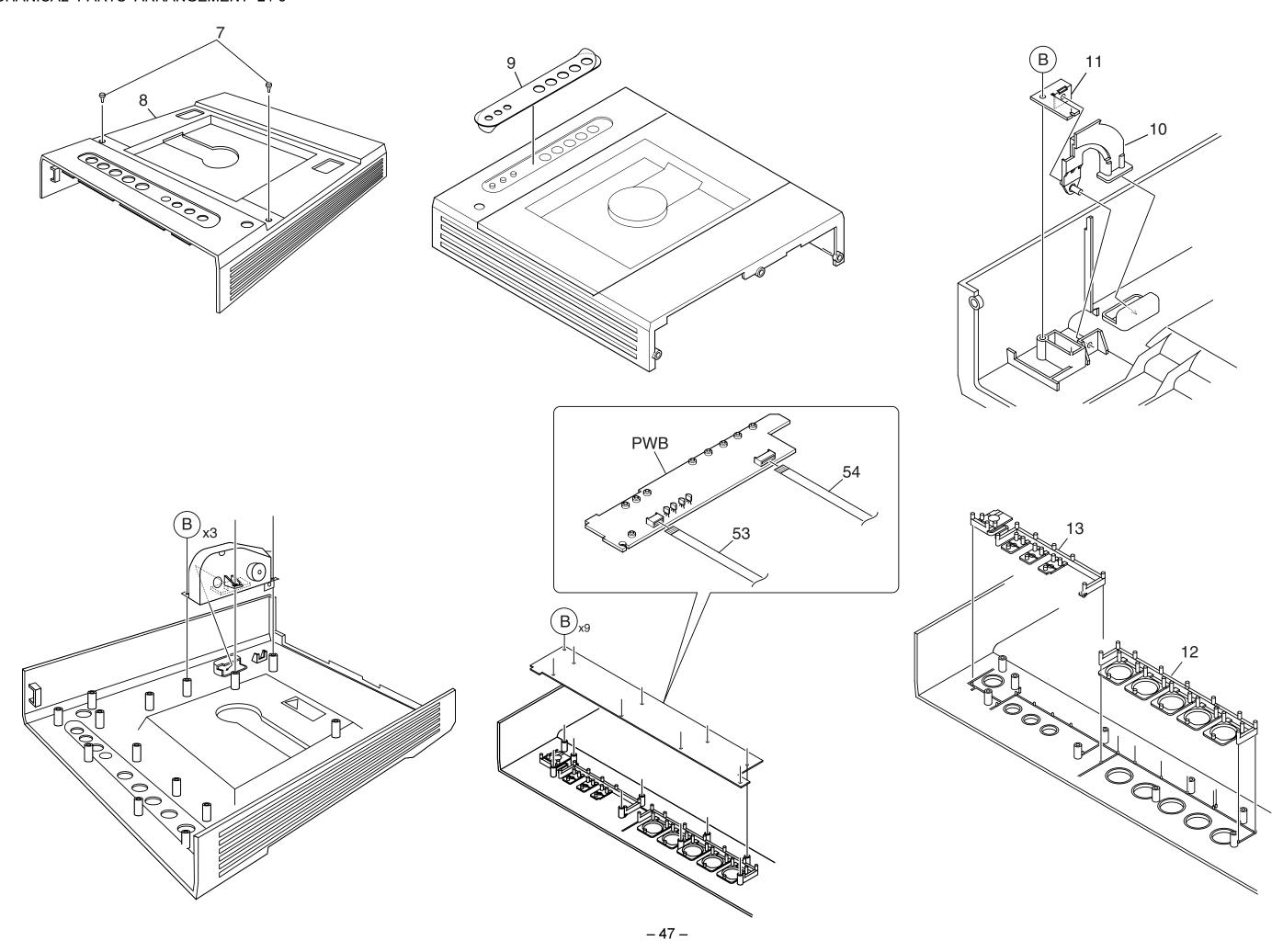
3. Function and Usage of the CD Test Mode

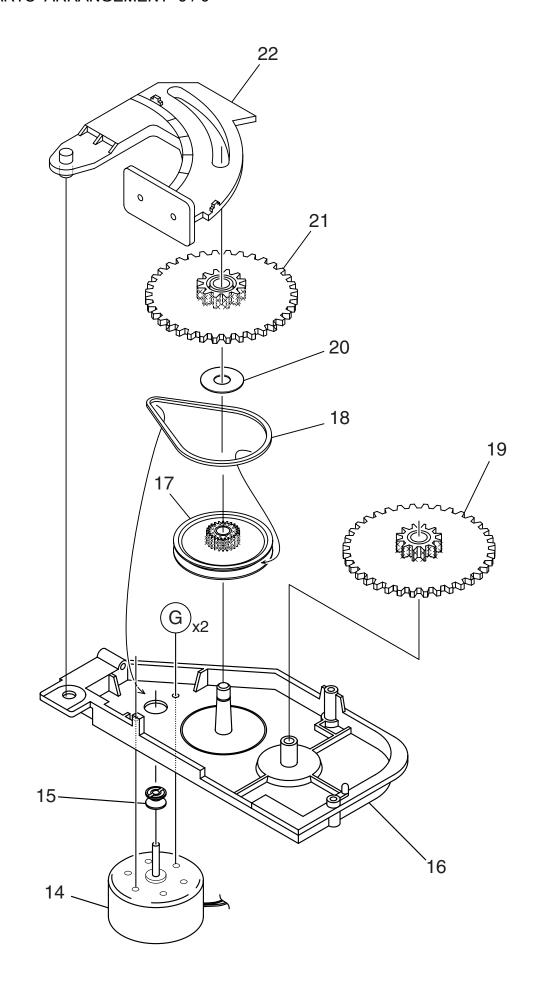
No	Mode	Button for Activation	Display	Operation	Contents
1	Start Mode		All lights are lit.		FL check Microcomputer check
2	Search Mode (without disc)	PLAY button	Normal	LD illuminates all the time Focus search continues operations *1 Spindle motor continuous kick	APC circuit check Laser current measurement Focus search waveform check Focus error waveform check (DRF in the search mode is ignored)
3	Play Mode	PLAY button	Normal	Normal playback If TOC cannot be read, focus search is continued	Each servo circuit is checked DRF check
4	Sled Mode	FF button		Pickup moves to the inner circumference *2	Sled circuit check Mechanism operation check Pickup check
		RWD button		Pickup is moves to the outer circumference *2	Pickup check

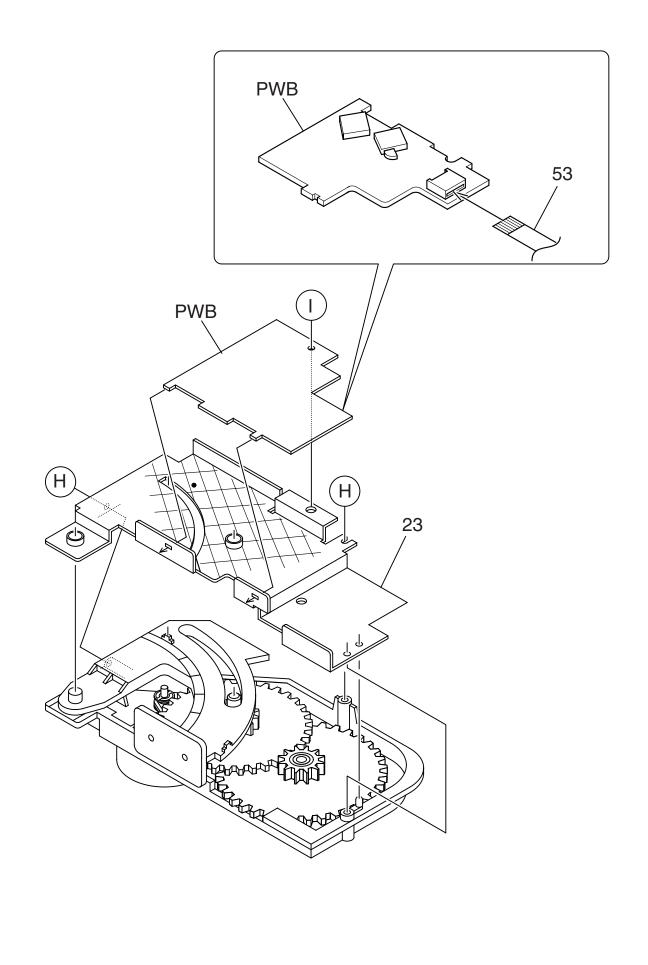
^{* 1.} The driver IC heats up and the protection circuit starts working when the focus search is continued for 10 minutes or longer. There can be a case that operations cannot be performed correctly. In such a case, turn off the main power. After cooling down the machine, restart the machine.

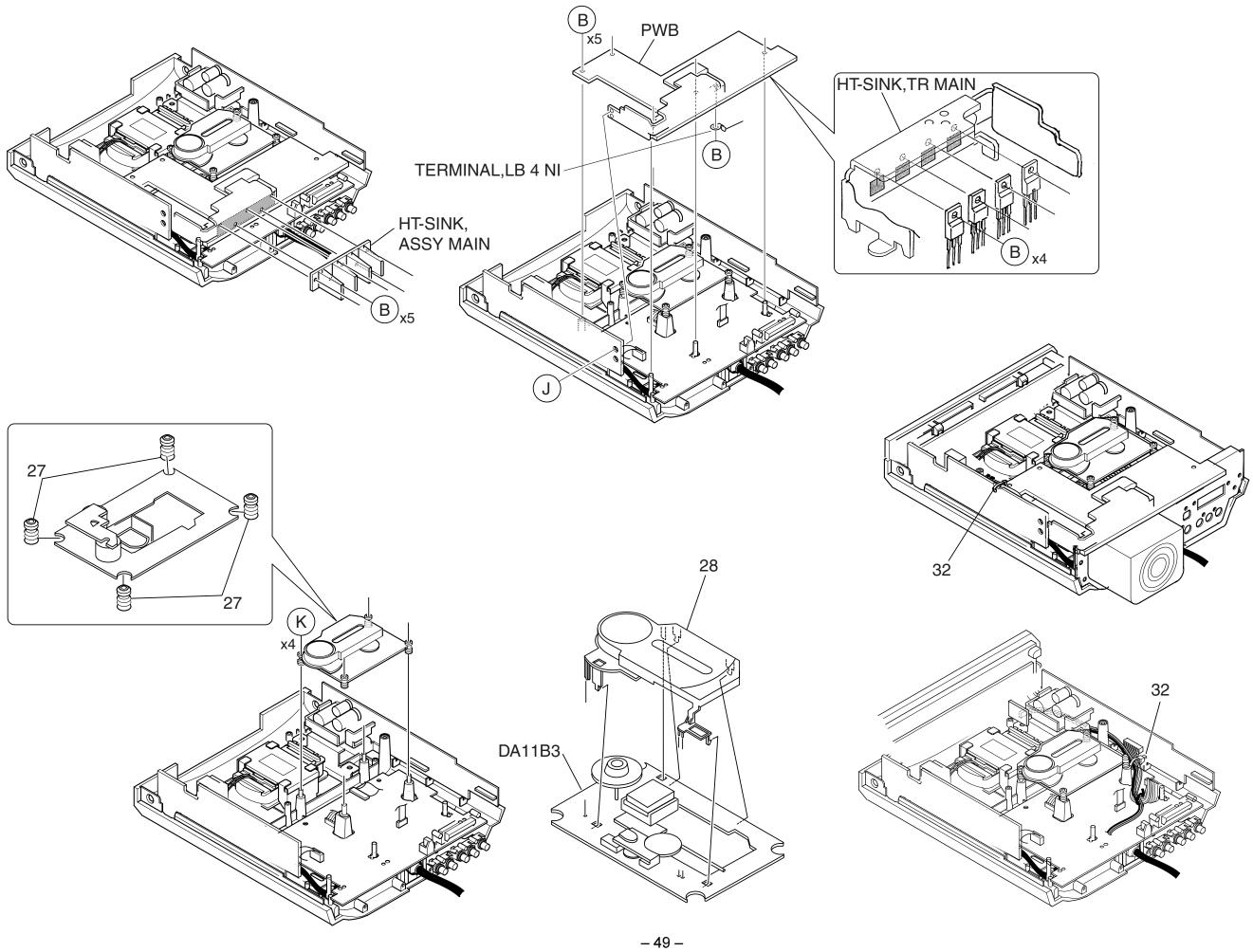
^{* 2.} Be careful not to damage the gear because the sled motor rotates while the FF or RWD button is being pressed even if the pickup is located in the innermost track or the outermost track.

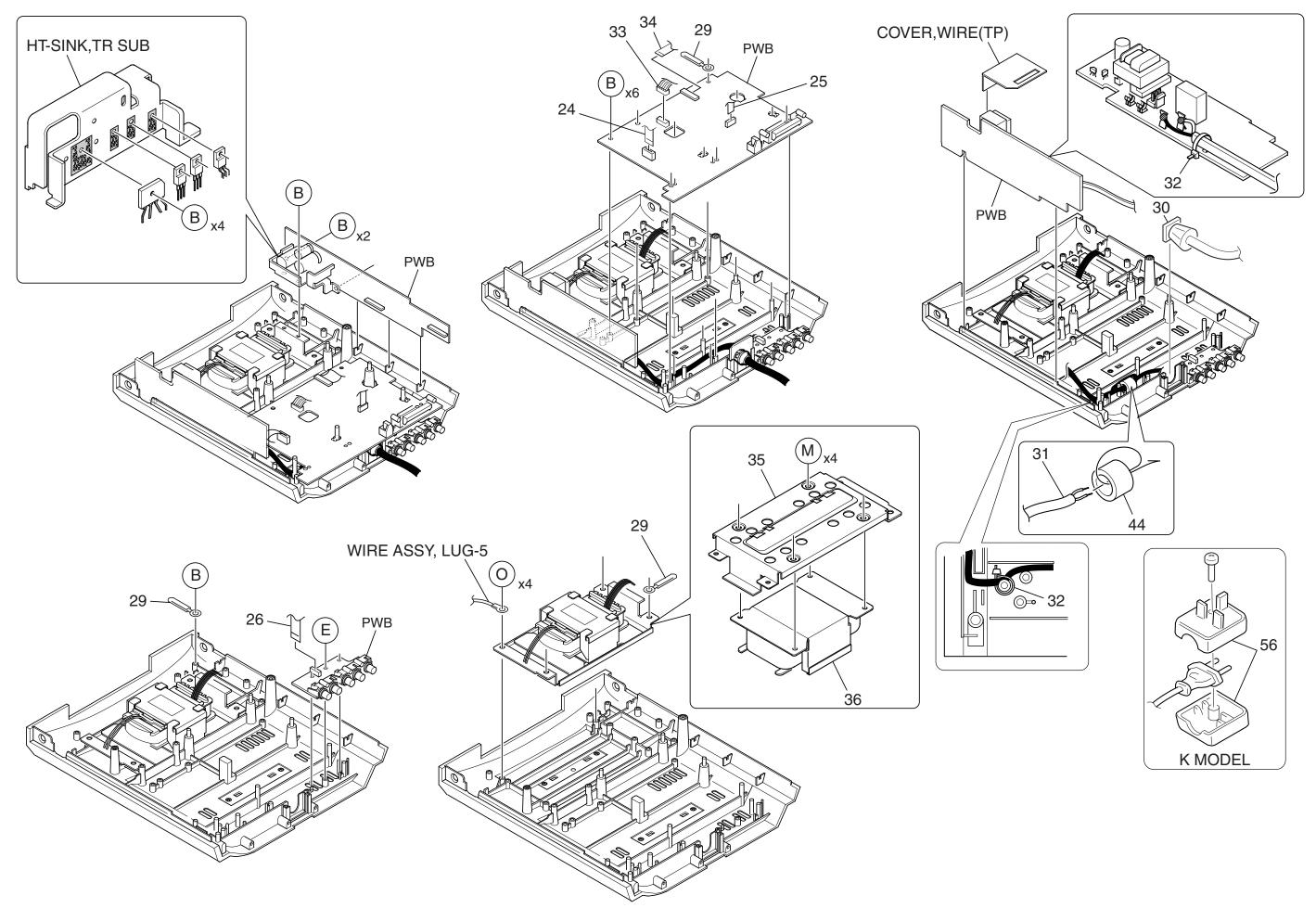


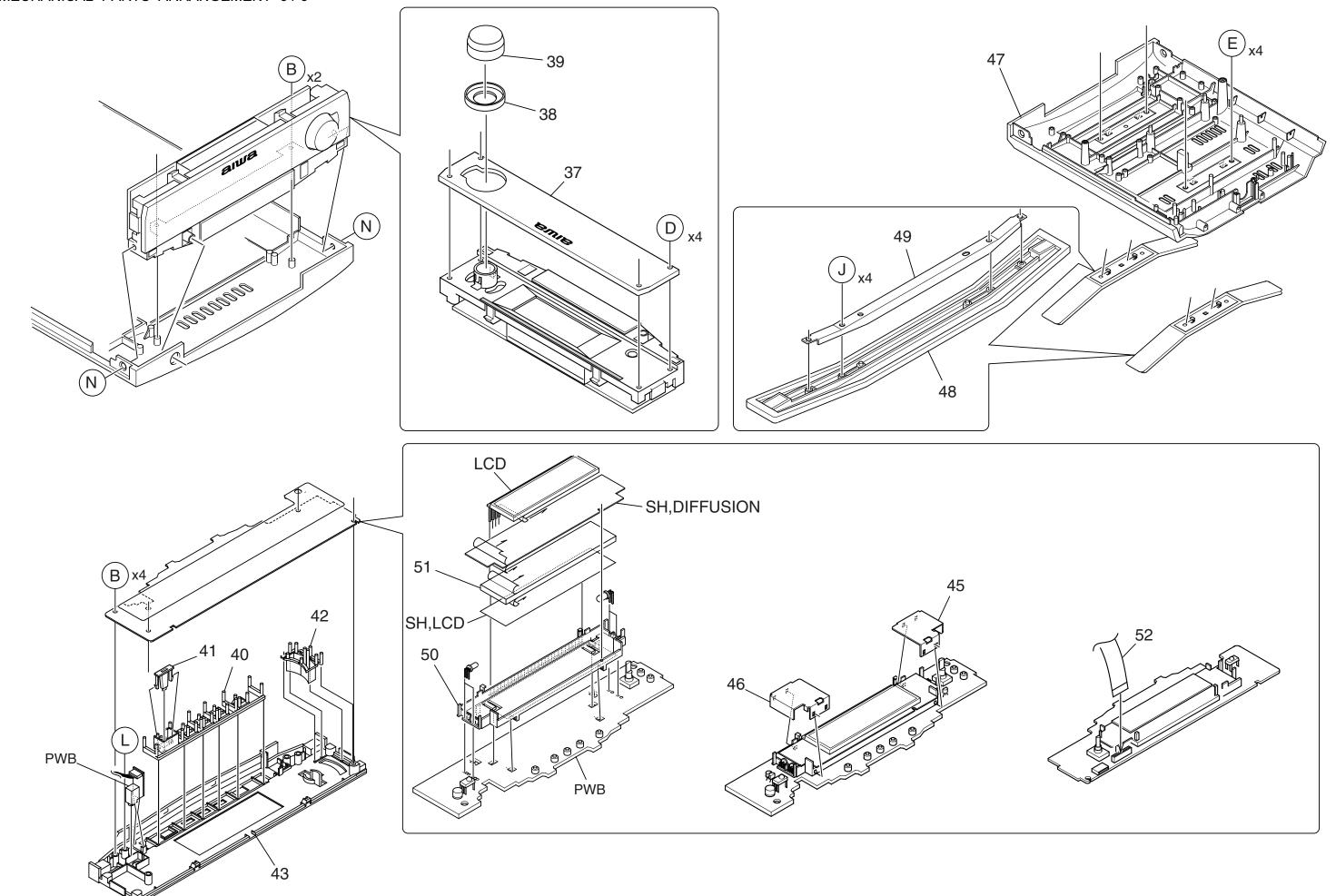








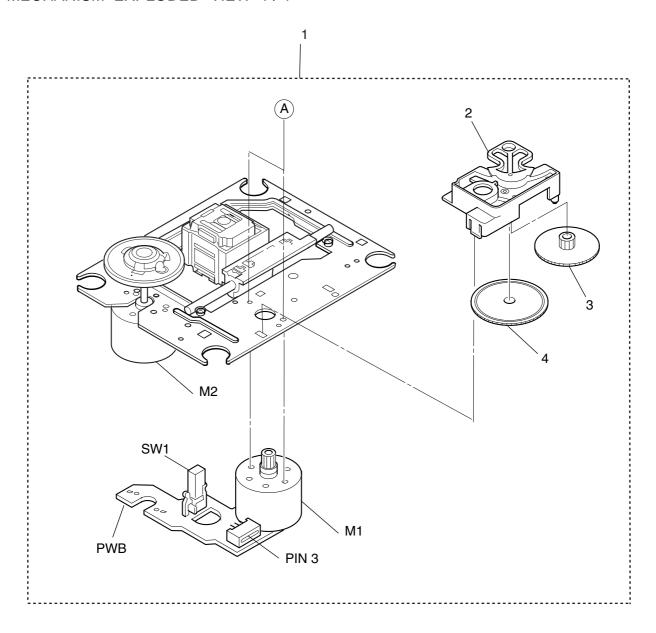




REF	NO.	PART NO.	KAN NO.	RI	DESCRIPTION		R	EF. NO.	PART NO.	KAN NO.		DESCRIPTION
		8B-CL2-009-010		CAP, TOP	?		\triangle	36	8B-CL2-652-010			EZ <k,ez></k,ez>
		8B-CL2-054-010		WINDOW, 7	FOP(N) < K, EZ, HR: FOP(N) U < U, C>	>	$\overline{\mathbb{A}}$		8B-CL2-653-010		PT, BCL-2	
		8B-CL2-055-010					⚠		8B-CL2-654-010		PT,BCL-2	
		8B-CL2-045-110		RING, TO					8B-CL2-010-010		WINDOW, F	
	4	8B-CL2-022-110			EAR CSM <c></c>			38	8B-CL2-026-010)	REFLECTO	R, VOL
		8B-CL2-028-110		PANEL, RE	EAR USM <u></u>				8B-CL2-025-010		KNOB, RTR	
		8B-CL2-030-110		PANEL, RE	SAR KSM <k></k>				8B-CL2-048-010		KEY, POWE	
		8B-CL2-031-110 8B-CL2-032-110		DANET DE	LAK EZSM <ez></ez>				8B-CL2-027-010 8B-CL2-049-010		REFLECTO KEY, JOG	K, POWEK
		88-912-081-110		FF-CABLE	5.12P 1.25 80M	ví			8B-CL2-001-010		CABI, FR<	K,HR>
					EAR USM <u> EAR KSM<k> EAR EZSM<ez> EAR HRJSM<hr/> E,12P 1.25 80M</ez></k></u>	-						
		87-A90-796-010			1R-12MC-19-2401	MM			8B-CL2-004-010		CABI, FR	
		8A-CQU-043-010 8B-CL2-005-210		CUSH, TO					8B-CL2-008-010 87-003-317-010		CABI, FR	EZ <ez> .5-25-15 E2515MRT</ez>
		8B-CL2-040-210		CABI, TO	P U <u,c> P<k,ez,hr></k,ez,hr></u,c>				8B-CL2-218-010		HLDR, LCD	
		8B-CL2-012-110		PLATE, OF	PE(L2)				8B-CL2-219-010		HLDR, LCD	
				·							•	
		8B-CL2-014-110 8B-CL2-223-010		ARM, OPEN HLDR, ARM					8B-CL2-041-110 8B-CL2-042-110		CABI, BOT	TOM <k> TOM EZ<ez></ez></k>
		8B-CL2-047-010		KEY, PLA					8B-CL2-006-110			TOM U <u,c></u,c>
		8B-CL2-044-010		KEY, FUN	L				8B-CL2-007-110			TOM HR <hr/>
		87-A90-036-010			RF-300CA-114	40			8B-CL2-043-110		FOOT, ARC	
	1 5	84-ZG1-267-010		DIIITEVI	0.04 0.00			4.0	8B-CL2-205-110	١	III DD EOO	um.
		8B-CL2-211-110		CHAS, GEA	LOAD MO 8				8B-CL2-220-010		HLDR, FOC	
		8B-CL2-214-010		GEAR, PUI					8B-CL2-029-010		REFLECTO	
		8B-CL2-225-010		BELT, SQ1					8B-CL2-660-010			,21P 1.0
		8B-CL2-215-010		GEAR, MII					88-905-121-110			, 5P 120MM
	20	8B-CL2-226-010		W-P,6.5-	-12.8-0.3 B W/G	O ADH		54	88-908-201-110)	FF-CABLE	,8P 1.25
	21	8B-CL2-216-010		GEAR, OUT	[55	88-904-081-110)		,4P 1.25 80MM <ez></ez>
		8B-CL2-013-110		ARM, OPEN			⚠		87-099-811-010			TR CONV(K) <k></k>
		8B-CL2-212-010		HLDR, GEA					87-067-761-010		BVT2+3-1	
4	24	8B-CL2-662-010		FF-CABLE	E,11P 1.0			В	87-067-703-010)	BVT2+3-1	0 W/0 SLOT
		8B-CL2-661-010		FF-CABLE				С	8A-NF7-251-010)	W,3.2-8-	0.45
		88-908-121-110			E,8P 1.25 120M	I.			8Z-CL1-034-010		S-SCREW,	
		88-CH6-220-110		CUSHION,					87-067-579-010			W/O SLOT
		8Z-CDB-169-010 87-064-185-010		PANEL, CI		7 110\			87-067-822-010 87-067-868-010		V+1.7-4	0 W/O SLOT
4	29	07-004-103-010			RE PVC 0.5 <k,e< td=""><td></td><td></td><td></td><td>07-007-000-010</td><td>,</td><td>V+1./-4</td><td>DIV UT</td></k,e<>				07-007-000-010	,	V+1./-4	DIV UT
		88-NF9-203-010		BUSHING,	CORD-U <u,c></u,c>	R> N FAI <ez> HR> C></ez>		Н	87-B10-294-010		BVT2+2.6	
		88-NF9-210-010		BUSHING,	CORD-E <k, ez,="" hi<="" td=""><td>R></td><td></td><td>Ι</td><td>87-067-767-010</td><td></td><td>BVTT+2.6</td><td></td></k,>	R>		Ι	87-067-767-010		BVTT+2.6	
<u> </u>		87-A80-092-010		AC CORD	ASSY, E BLK SUI	N FAI <ez></ez>		J	87-067-584-010			W/O SLOT
		87-A80-143-010 87-A80-149-010		AC CORD	ASSI,E BLK <k,< td=""><td>1K></td><td></td><td>K. T</td><td>8Z-CK5-222-010 88-AR1-217-010</td><td></td><td></td><td>CD+2.6-6 F9</td></k,<>	1K>		K. T	8Z-CK5-222-010 88-AR1-217-010			CD+2.6-6 F9
<u> </u>	JΙ	0/-A0U-145-U1U		AC CURD	MODI,U DLECO,			П	00-AR1-21/-U1(,	S-SCREW,	Df 1273=0
;	32	87-A90-193-010		HLDR, CV1	L00 (B)			M	87-067-585-010)	BVTT+4-6	
		86-ZG1-609-010		CONN ASS					87-721-095-410			W/O SLOT
		8B-CL2-663-010			E,16P 1.0			0	87-741-096-410)	UT2+3-10	W/O SLOT
		8B-CL2-201-110		HLDR, PT) 11/11/							
<u> </u>	טט	8B-CL2-650-010		PT,BCL-2	2 0/0/							

COLOR NAME TABLE

Basic color symbol	Color	Basic color symbol	Color	Basic color symbol	Color
В	Black	С	Cream	D	Orange
G	Green	Н	Gray	L	Blue
LT	Transparent Blue	N	Gold	Р	Pink
R	Red	S	Silver	ST	Titan Silver
Т	Brown	V	Violet	W	White
WT	Transparent White	Υ	Yellow	YT	Transparent Yellow
LM	Metallic Blue	LL	Light Blue	GT	Transparent Green
LD	Dark Blue	DT	Transparent Orange	GM	Metallic Green
YM	Metallic Yellow	DM	Metallic Orange	PT	Transparent Pink
LA	Aqua Blue	GL	Light Green	HT	Transparent Gray



CD MECHANISM PARTS LIST 1/1

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	M8-AZK-M90-070	DA11B3	
2	S2-121-A28-400	COVER G	EAR
3	S2-511-A21-000	GEAR MI	DDLE
4	S2-511-A21-100	GEAR, DR	IVE
A	S1-PN2-03R-OSE	SCR PAN	PCS 2-3

SPEAKER DISASSEMBLY INSTRUCTIONS SX-LX7

1. Remove the speaker net.



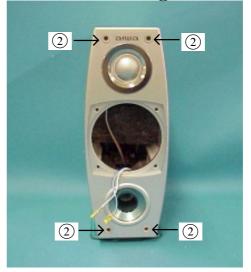
2. Remove the four screws ①.



3. Remove the woofer.



4. Take out the rubber bushes 2, then remove the screws hidden by the bushes.



5. Remove the front panel.



6. Remove the two screws and tweeter.



SPEAKER PARTS LIST <SX - LX7 (YJSN, YUJSN)>

REF. NO.	PART NO.	KAN	RI	DESCF	RIPTION	
		NO.				
1	8B-CP2-001-010		PANEL, FR			
2	8B-CP2-002-010		PANEL, REA	AR		
3	8B-CP2-003-010		CABI,S			
	8B-CP2-004-010		PANEL, DU	CT A		
5	8B-CP2-005-010		PANEL, DU	CT B		
	8B-CP2-007-010		GRILLE, F			
	8B-CP2-016-010		,			L/GR <yujsn></yujsn>
	8B-CP2-018-010		GRILLE, F	RAME	ASSY	D/GR <yujsn></yujsn>
9	8B-CP2-015-010		RING,W			
10	8B-CP2-011-010		RING, TW			
	8B-CP2-012-010		TERMINAL			
	8B-CP2-013-010		FOOT			
	8A-CJ5-411-010		SPKR,W 8			
14	8B-CP2-604-010		SPKR, TW	25		
15	8B-CP2-614-010		CORD, SP			
	8B-CP2-020-010		HLDR,A			
17	8B-CP2-021-010		HLDR,B			

ACCESSORIES / PACKAGE LIST

REF. N	10.	PART NO.	Kanr No.	RI DESCRIPTION
	1	8B-CL2-903-210		IB, U(ESF)M <u,c></u,c>
	1	8B-CL2-901-010		IB, H(ECA) M <hr/>
	1	8B-CL2-905-010		IB, K(E)M <k></k>
	1	8B-CL2-906-110		IB, EZ (9L) M <ez></ez>
:	2	87-006-225-010		ANT, LOOP ANT NC2
	3	87-043-115-010		FEEDER-ANT, FM <u, c="" hr,=""></u,>
	3	87-A90-118-010		ANT, WIRE FM(Z) < EZ, K>
	4	8B-CL2-961-010		RC UNIT, RC-BAT01(BS)
\wedge	5	87-A92-262-010		PLUG, CONVERSION WT01 <hr/>
$\overline{\mathbb{A}}$	6	87-099-811-010		PLUG, ADPTR CONV(K) <k></k>

アイワ株式会社 〒110-8710 東京都台東区池之端1-2-11 ☎03(3827)3111 (代表) **AIWA CO.,LTD.** 2-11, IKENOHATA 1-CHOME, TAITO-KU, TOKYO 110, JAPAN TEL:03 (3827) 3111 9301978 931261 Printed in Singapore